

# Naval Oceanographic Office

Stennis Space  
Center  
MS 39522-5001

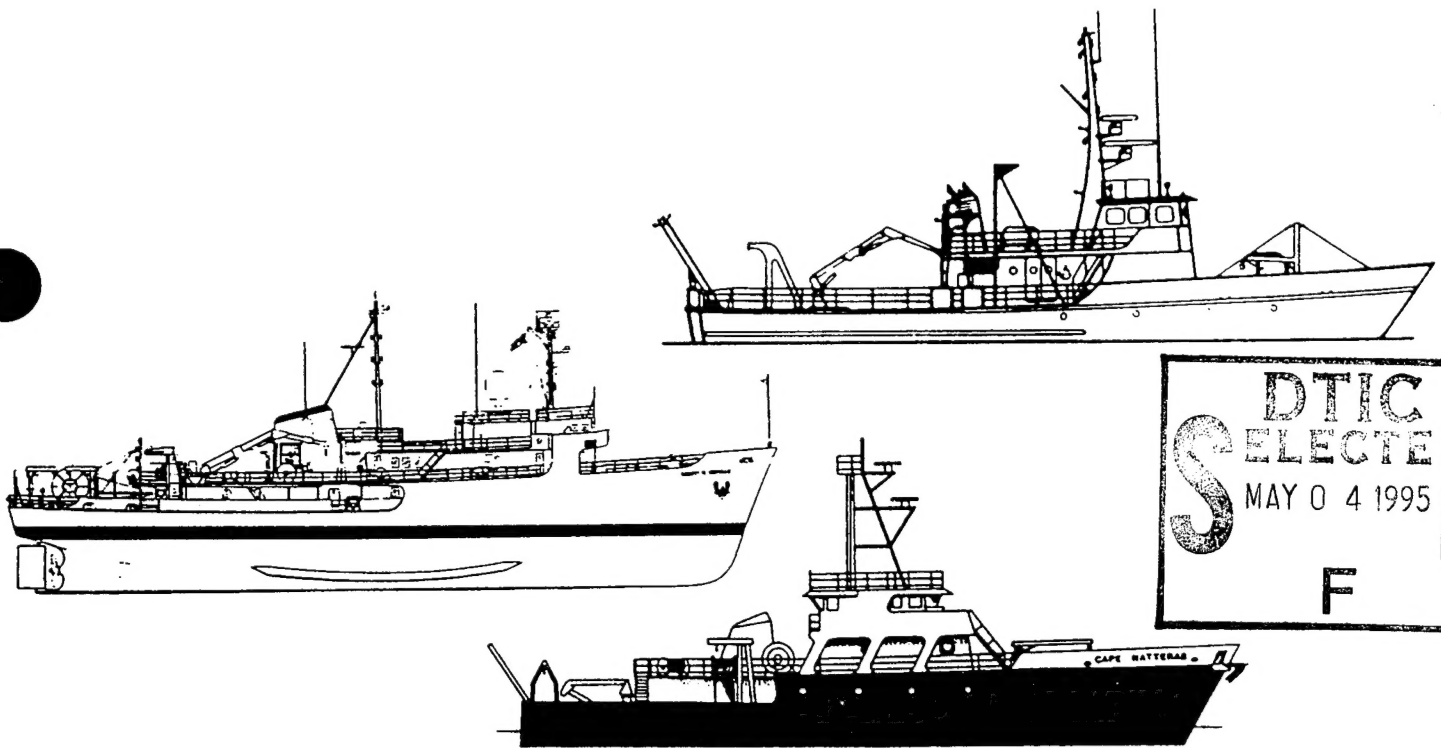
Reference Publication  
RP 53  
January 1995



RP 53

## NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

NAVY•UNOLS•NOAA•UNIVERSITY•USCG•FEDERAL



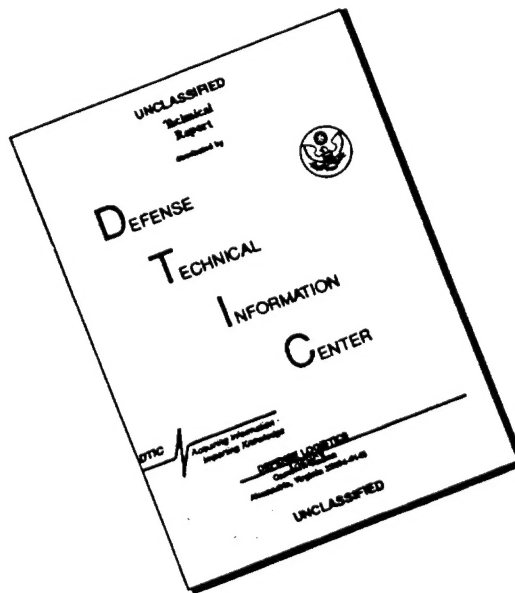
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Commander  
Naval Meteorology and  
Oceanography Command

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## FOREWORD

The Naval Oceanographic Office (NAVOCEANO) is pleased to publish the second edition of the National Oceanographic Fleet Platform Characteristics. This document supersedes the RP 34 series that provided ship schedule information in addition to platform characteristics. Distribution is made to those individuals and activities involved in planning, scheduling, and coordinating U.S. oceanographic ship operations.

As ship operating expenses increase, efficiency of operations becomes a key ingredient for an effective national oceanographic program. To this end, efforts must be made to maximize the use of existing oceanographic platforms by "piggybacking" of projects, exchange of oceanographic data, and coordination of schedules. This publication serves as one means of assisting sponsoring activities and user organizations in effective management of national oceanographic assets.

In light of this effort, and recognizing that many ocean-capable vessels specifically configured for oceanographic research and hydrographic surveying exist in the private sector (representing a definite national asset), this edition includes platform characteristics of vessels operated by commercial concerns. An invitation is extended to other commercial concerns which operate specifically configured, deep-ocean-capable, oceanographic or hydrographic vessels to include their vessels in future editions.



DIETER K. RUDOLPH  
Captain, U.S. Navy  
Commanding Officer

**This document supersedes RP 34 series publication. The changes that incurred include:**

Ship schedules are available electronically and are no longer a part of this publication.

The 3-hole punch design is intended for addressees to retain this publication for the purpose of incorporating updates to the platform characteristics that will be distributed as required.

Please provide the following information to continue receiving the **NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS** publication. This information will be used to establish a mailing list for future editions and updates.

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RP 53



**Naval Oceanographic Office**  
Operations Office  
Building 1002  
Stennis Space Center  
Mississippi 39522-5001



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# REPORT DOCUMENTATION PAGE

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SUNCOASTER	
TURSIOPS	

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DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
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## INTRODUCTION

This publication presents the 1995 platform characteristics for the national oceanographic fleet. Information is provided for over 90 ships which operate under various academic, governmental, or commercial organizations. Included with each ship is information on ship characteristics and engineering/deck equipment, and a point of contact.

The 1995 and future editions do not contain ship schedule information. This information is available from an electronic bulletin board (OCEANIC) maintained at the University of Delaware and may be accessed by computer. This method makes available current schedule information that is more up to date than that previously published in the RP 34 series which was superseded by this publication. The point of contact for the bulletin board is:

Katherine Bouton  
College of Marine Studies  
University of Delaware  
Lewes, Delaware 19958  
(302) 645-4278  
FAX (302) 645-4007

Networks are available as follows:

Telemail: K. Bouton/OMNET  
INTERNET: Bouton @ DELOCN.UDEC.EDU  
Span: DELOCN::Bouton

Further information or assistance in accessing or inputting schedule information may be obtained from Katherine Bouton. All ship operators are highly encouraged to utilize this service.

For information on changes or modifications of vessel capabilities and related questions, please address correspondence to Commanding Officer, Naval Oceanographic Office (Attn: Operations Office), Stennis Space Center, MS 39522-5001, or call commercial (601) 688-4631/4370 or Defense Switch Network (DSN) 485-4631/4370. ADDITIONS OR CHANGES SHOULD BE FORWARDED TO THE NAVAL OCEANOGRAPHIC OFFICE BY 1 OCTOBER 1995 TO BE INCORPORATED IN NEXT YEAR'S EDITION.

## PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES

The Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC) is the point of contact for ship operations that use sonic emitters, towed devices, or explosive charges. Such operations present special hazards to submarine operation and navigation. DMAHTC has agreed to disseminate information



concerning underwater hazards as part of the Notice to Mariners system. The intent of the reporting procedures is to eliminate mutual interference problems and equipment damage between ongoing and planned operations by advising units at sea of surface and subsurface obstacles. The revised Notice to Mariners system relies on the cooperation of the maritime community (military, governmental, and commercial). Timely notification to DMAHTC is needed for all operations that install moored underwater instrumentation, tow or drag devices of any kind, or use sonic emitters or explosives. DMAHTC will disseminate information as follows:

a. For moored instrumentation in depths of 300 meters or less (the maximum depth where damage could result from normal fishing operations), information will be broadcast as a radio navigational warning and reprinted in Section III of the Notice to Mariners.

b. For moored instrumentation in depths greater than 300 meters, the information will not be broadcast. Documentation will be forwarded to appropriate Naval commands for their use.

c. For tow or drag devices of any kind, sonic emitters or explosives, the information will be broadcast as a radio navigational warning.

Commercial companies are not required to provide operational information to DMAHTC but are encouraged to do so. The DMAHTC point of contact for information and notification is Defense Mapping Agency Hydrographic/Topographic Center, (Attn: MCC Mail Stop D44), 4600 Sangamore Road, Bethesda, Maryland 20816-5003, commercial (301) 227-3147 or TELEX 898334, DMAHTC, Washington, DC. Military users may use Defense Switch Network (DSN) 287-3147 or AUTODIN message to DMAHTCNAVWARN WASHINGTON DC. Broadcast Watch operates 24 hours per day, seven days a week.

\*\*\*\*\*

ALPHA HELIX

-----

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. THOMAS D. SMITH  
POC OFFICE: ASSISTANT DIRECTOR, COASTAL & MARINE OPERATIONS  
POC ORGANIZATION: INSTITUTE OF MARINE SCIENCE  
POC ADDRESS: UNIVERSITY OF ALASKA BOX 730  
POC CITY/STATE: SEWARD AK 99664  
COMMERCIAL AREA CODE: 907  
PHONE: 224-5261

-----

ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: COASTAL  
CALL SIGN (INTERNATIONAL): WSD7078  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: SEWARD AK  
TECHNICAL SPONSOR: UNIVERSITY OF ALASKA  
OPERATIONS CONTROL: UNIVERSITY OF ALASKA  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 9.3/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 15  
NUMBER OFFICERS: 3  
NUMBER IN CREW: 5  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL-H2O-REFRIGERATED STORES  
BUILDER: J M MARTINAC COMPANY  
WHERE BUILT: TACOMA WA USA  
INITIAL COST: 1.3/65 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '64  
LAUNCH DATE: '65  
DELIVERY DATE: '66  
COMMISSION DATE: '66  
CONVERSION DATE: '82  
LAST OVERHAUL: '86  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 1991  
UPDATE OF INFORMATION: 27 APR 90

-----

SHIP DIMENSIONS

LENGTH: 132.8 FEET  
MAX BEAM: 31.0 FEET  
HEIGHT: 58.0 FEET  
GROSS TONNAGE: 294  
DISPLACEMENT: 600 TONS  
DRAUGHT: 13.8 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 10000 NAUTICAL MILES  
MAX SPEED: 11.0 KNOTS  
MIN SPEED: 1.0 KNOTS

-----

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: BOW THRUSTER  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: ELLIOTT WHITE GILL 360  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 13 FOOT RUBBER INFLATABLE  
    2. 17 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 3800 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 2800 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: 6  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 6000 FEET  
        WIRE DIAMETER: 0.187 INCHES  
    02. MAJOR TYPE/USE: DEEP SEA  
        SECONDARY TYPE/USE: HYDROGRAPHIC  
        SLIP-RINGS: 6  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 26240 FEET  
        WIRE DIAMETER: 0.438 INCHES

-----  
ELECTRONIC EQUIPMENT

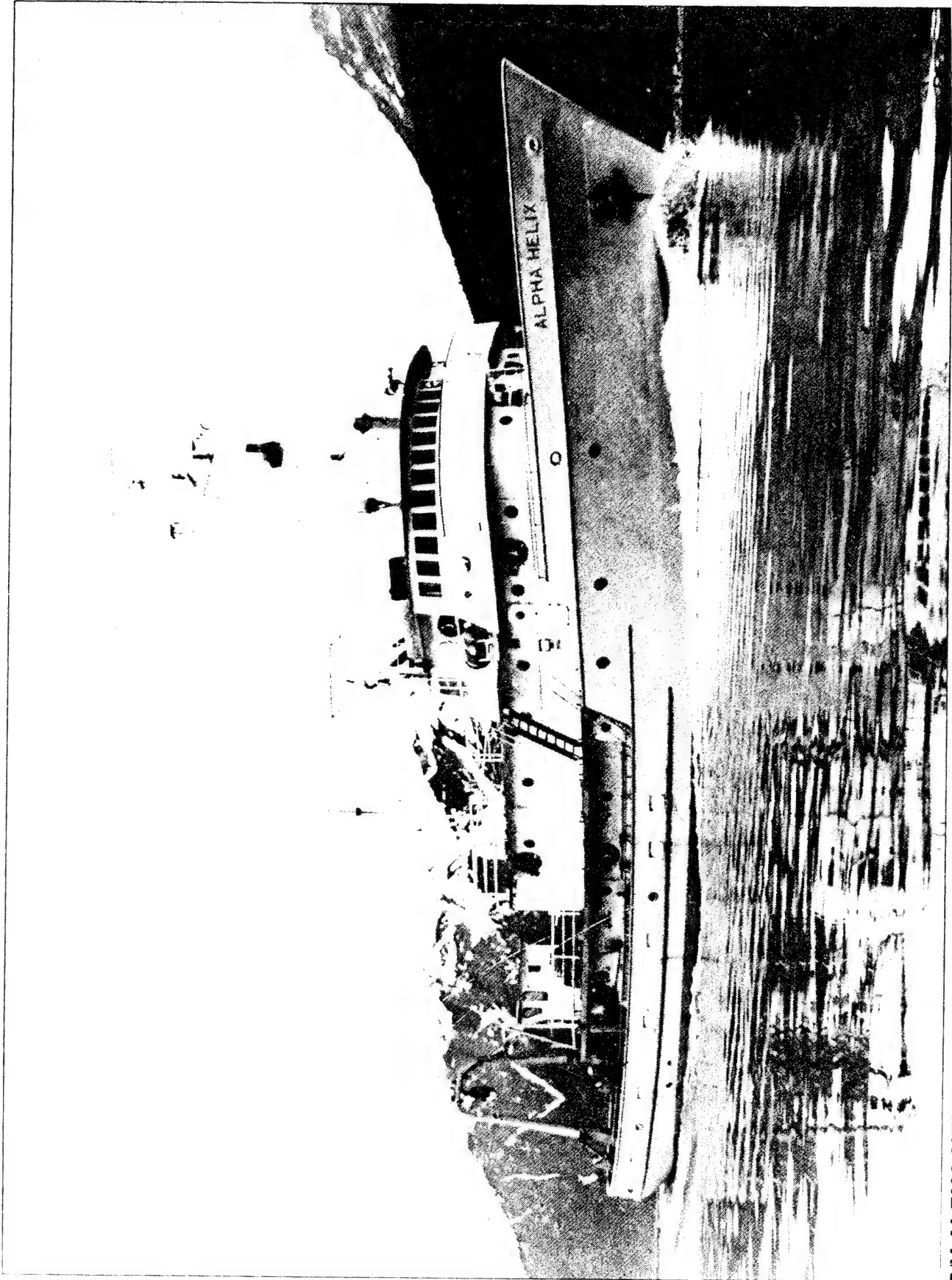
COMPUTERS:	HP 85, IBM-AT
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS 800B/ROSS 200
SOUNDING SYSTEM (DEEP):	EDO 248E

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FUEL DETAILS

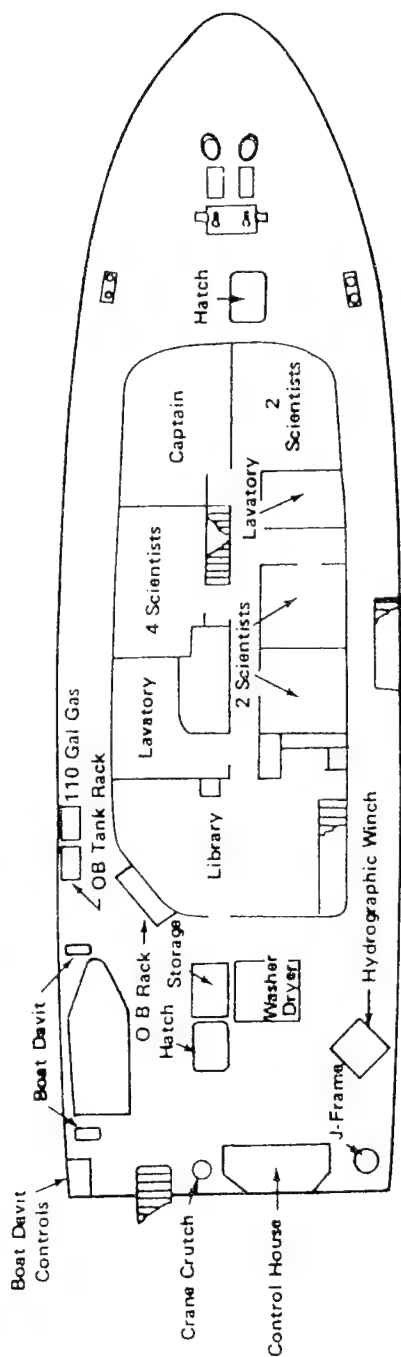
FUEL CAPACITY:	32000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	750 GAL/24-HRS
DURING AVERAGE OPERATIONS:	520 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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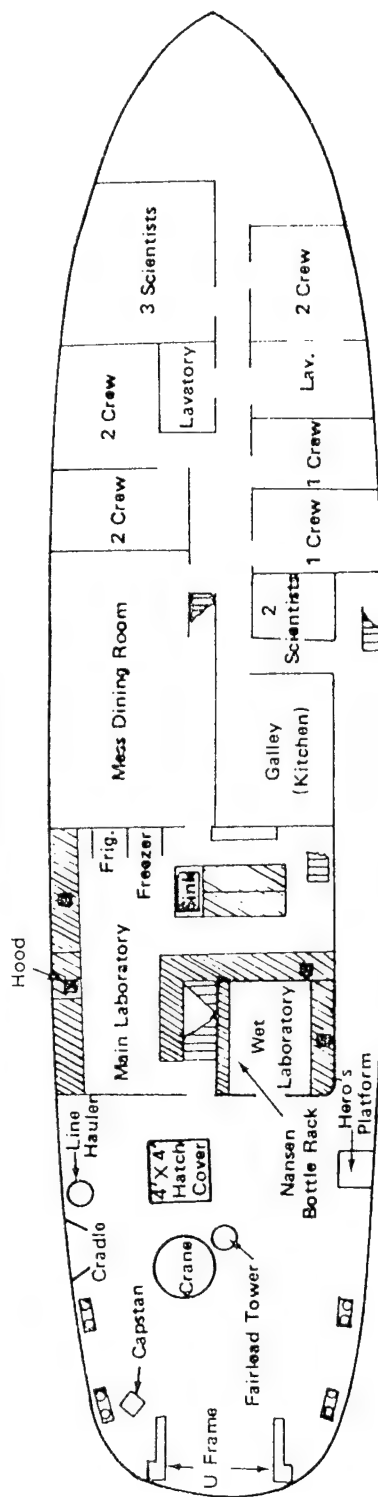


R/V ALPHA HELIX

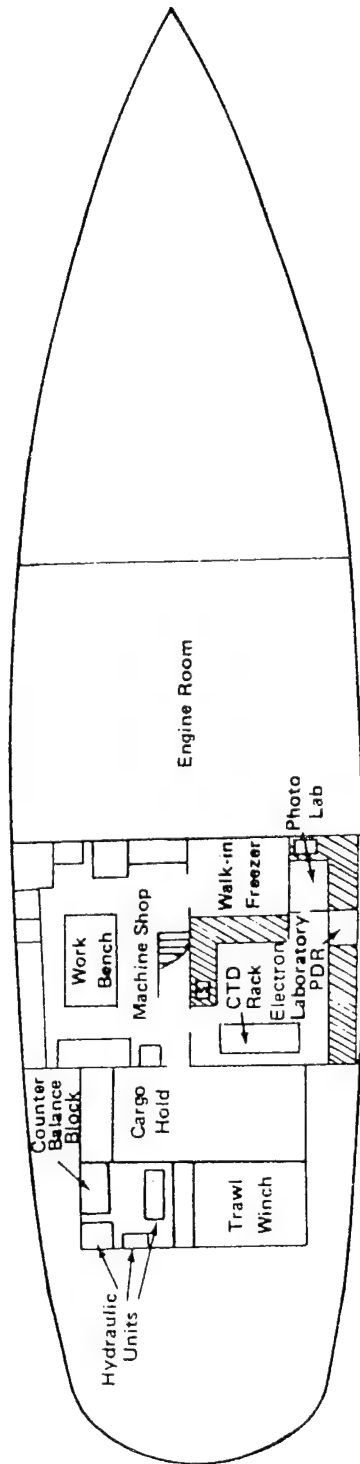
# FUNCTIONAL ARRANGEMENT OF R/V ALPHA HELIX



## UPPER DECK



## MAIN DECK



## LOWER DECK

\*\*\*\*\*

CAPE HENLOPEN

-----

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR WADSWORTH OWEN  
POC OFFICE: DIRECTOR OF FACILITIES & SERVICE  
POC ORGANIZATION: UNIVERSITY OF DELAWARE  
POC ADDRESS: 700 PILOTOWN ROAD  
POC CITY/STATE: LEWES DE 19958  
COMMERCIAL AREA CODE: 302  
PHONE: 645-4320

-----

ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: CREW BOAT HULL  
CALL SIGN (INTERNATIONAL): W2C8800  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-OFFSHORE  
SHIP OWNER: UNIVERSITY OF DELAWARE  
CERTIFICATION AUTHORITY: UNINSPECTED, ABS A-1  
FLAG REGISTRY: USA  
HOME PORT: LEWES DE  
TECHNICAL SPONSOR: UNIVERSITY OF DELAWARE  
OPERATIONS CONTROL: UNIVERSITY OF DELAWARE  
CONTRACTUAL INFORMATION: AVAILABLE FOR OUTSIDE USE. CALL POC.  
OPERATING COST/DAY: 5.0/87 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: 2  
NUMBER IN CREW: 5  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 13 DAY(S)  
LIMITING FACTOR: FUEL  
BUILDER: SWIFTSHIPS  
WHERE BUILT: MORGAN CITY, LA USA  
INITIAL COST: 1.2/75 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '74  
LAUNCH DATE: '75  
DELIVERY DATE: '76  
COMMISSION DATE: '76  
CONVERSION DATE: '00  
LAST OVERHAUL: '00  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2001  
UPDATE OF INFORMATION: 26 OCT 90

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SHIP DIMENSIONS

LENGTH: 120.0 FEET  
MAX BEAM: 23.3 FEET  
HEIGHT: 48.0 FEET  
GROSS TONNAGE: 228  
DISPLACEMENT: 165 TONS  
DRAUGHT: 9.3 FEET  
CRUISE SPEED: 12.5 KNOTS  
RANGE: 2368 NAUTICAL MILES  
MAX SPEED: 18.0 KNOTS  
MIN SPEED: 0.5 KNOTS

-----

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: NO  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: Y  
DEEP ANCHOR: 250 FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X16  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: Y  
UTILITY BOATS:  
    1. 16 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 12000 POUNDS  
    NUMBER OF FRAMES: 4  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 22050 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: OCEANOGRAPHIC  
        SECONDARY TYPE/USE: HYDROGRAPHIC  
        SLIP-RINGS: 6  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 10500 FEET  
        WIRE DIAMETER: 0.219 INCHES  
        SECONDARY WIRE TYPE: CONDUCTOR CABLE  
        SECONDARY WIRE LEN: 10500 FEET  
        SECONDARY WIRE DIAM: 0.219 INCHES



02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	10500 FEET
WIRE DIAMETER:	0.437 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	8200 FEET
SECONDARY WIRE DIAM:	0.500 INCHES
03. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1020 FEET
WIRE DIAMETER:	0.750 INCHES

-----

ELECTRONIC EQUIPMENT

COMPUTERS:	4 IBM - AT COMPATIBLE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	KONEL/BENMAR
SOUNDING SYSTEM (DEEP):	KONEL

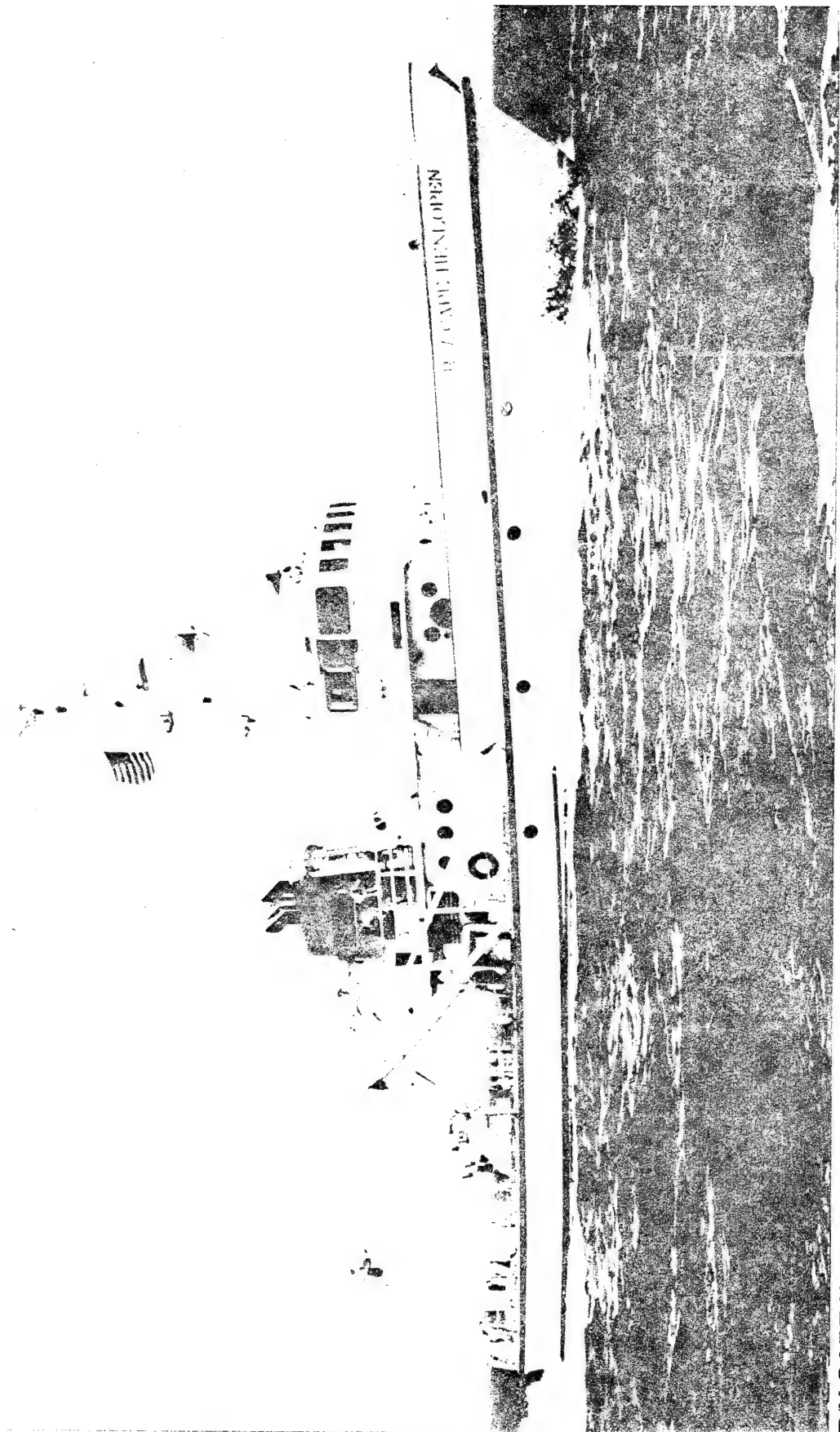
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FUEL DETAILS

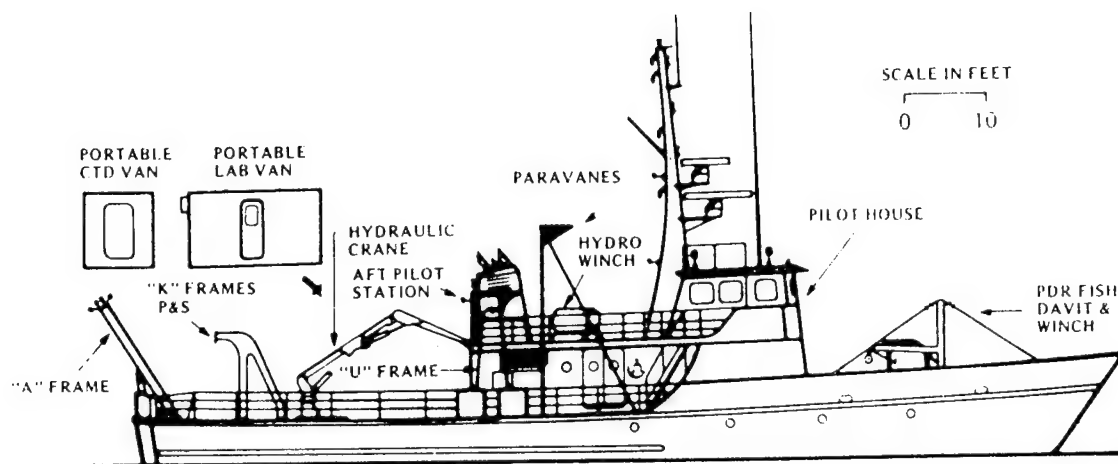
FUEL CAPACITY:	9750 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	800 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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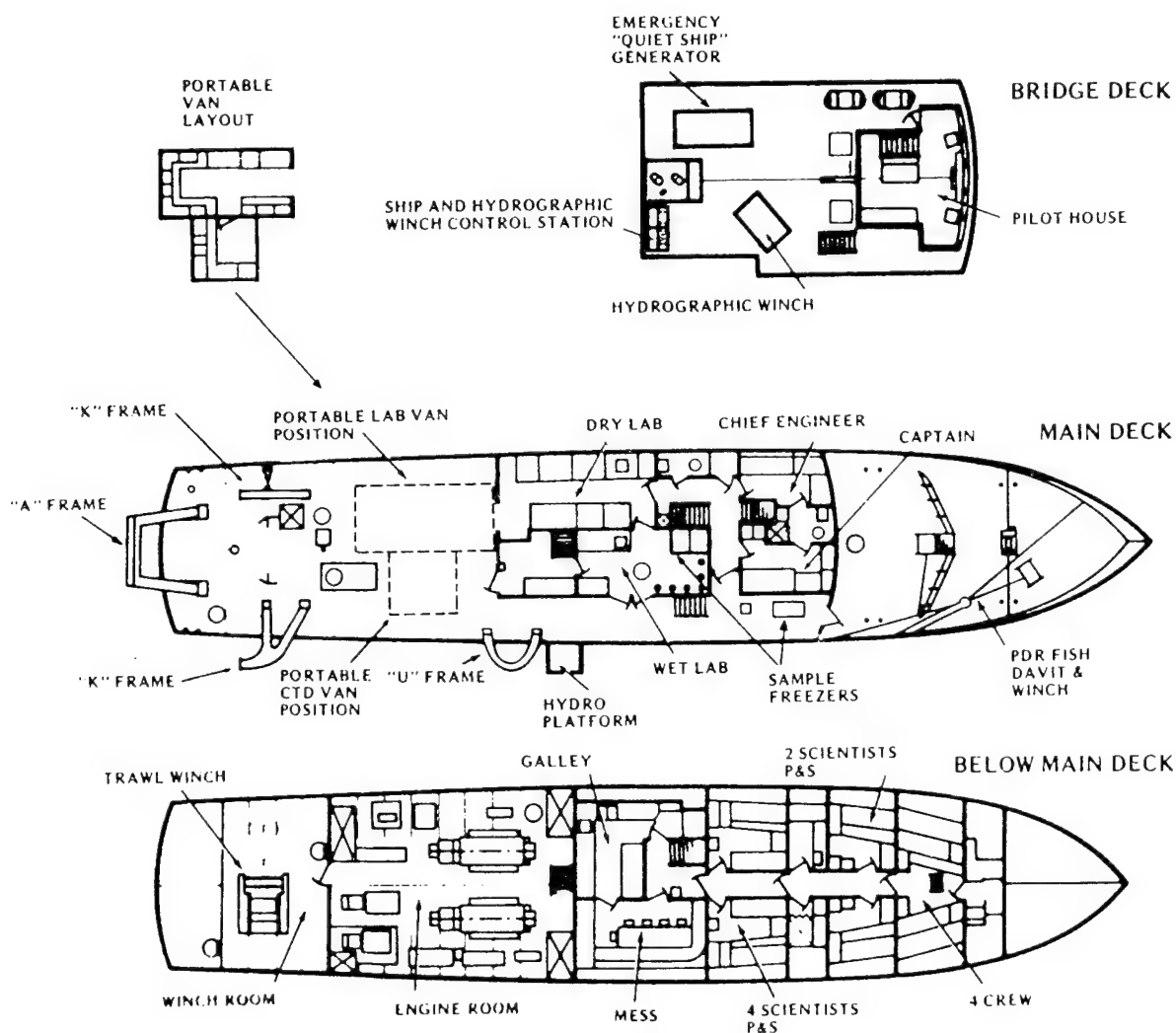


R/V CAPE HENLOPEN



LENGTH: 120 FT.

SCALE IN FEET  
0 10



**R/V CAPE HENLOPEN**

\*\*\*\*\*

CAPE HATTERAS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR QUENTIN M. LEWIS, JR.  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: DUKE/UNC OCEANOGRAPHIC CONSORTIUM  
POC ADDRESS: DUKE UNIVERSITY MARINE LAB  
POC CITY/STATE: BEAUFORT, NC 28516  
COMMERCIAL AREA CODE: 919  
PHONE: 728-2111, EXT 274

ADMINISTRATIVE DETAILS

DESIGNATOR: -  
CLASS: COASTAL ZONE R/V  
CALL SIGN (INTERNATIONAL): WRZ8934  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - COASTAL ZONE  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: BEAUFORT NC USA  
TECHNICAL SPONSOR: DUKE UNIV./UNIV. OF N.C. CONSORTIUM  
OPERATIONS CONTROL: DUKE UNIV./UNIV. OF N.C. CONSORTIUM  
CONTRACTUAL INFORMATION: NSF CHARTER PARTY AGREEMENT. EXPIRES 1996.  
OPERATING COST/DAY: 6.570/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 5  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 24 DAY(S)  
LIMITING FACTOR: FOOD STORES  
BUILDER: ATLANTIC MARINE INC.  
WHERE BUILT: FORT GEORGE ISLAND FL  
INITIAL COST: 3.1/81 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 15 JUN 80  
LAUNCH DATE: '00  
DELIVERY DATE: 01 AUG 81  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 15 NOV 89  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 2006  
UPDATE OF INFORMATION: 22 OCT 90

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SHIP DIMENSIONS

LENGTH: 135.0 FEET  
MAX BEAM: 32.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 296  
DISPLACEMENT: 539 TONS  
DRAUGHT: 9.0 FEET  
CRUISE SPEED: 10.5 KNOTS  
RANGE: 7000 NAUTICAL MILES  
MAX SPEED: 12.5 KNOTS  
MIN SPEED: 0.1 KNOTS  
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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: -  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: -  
ACTIVE RUDDER: -  
DYNAMIC POSITIONING: -  
ANTI-ROLL: -  
STABILIZER: -  
DEEP ANCHOR: 720 FEET  
BERTHING VAN DIMENSIONS: -  
INSTRUMENT VAN DIMENSIONS: 5X6X9  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: -  
HELO SUPPORT: -  
METEOROLOGICAL OBSERVATIONS: -  
UTILITY BOATS:  
    1. 17 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 15000 POUNDS  
    NUMBER OF FRAMES: 3  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 12000 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: OCEANOGRAPHIC  
        SECONDARY TYPE/USE: -  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 33000 FEET  
        WIRE DIAMETER: 0.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: OTHER  
        SLIP-RINGS: 1  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.187 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	-
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.322 INCHES

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#### ELECTRONIC EQUIPMENT

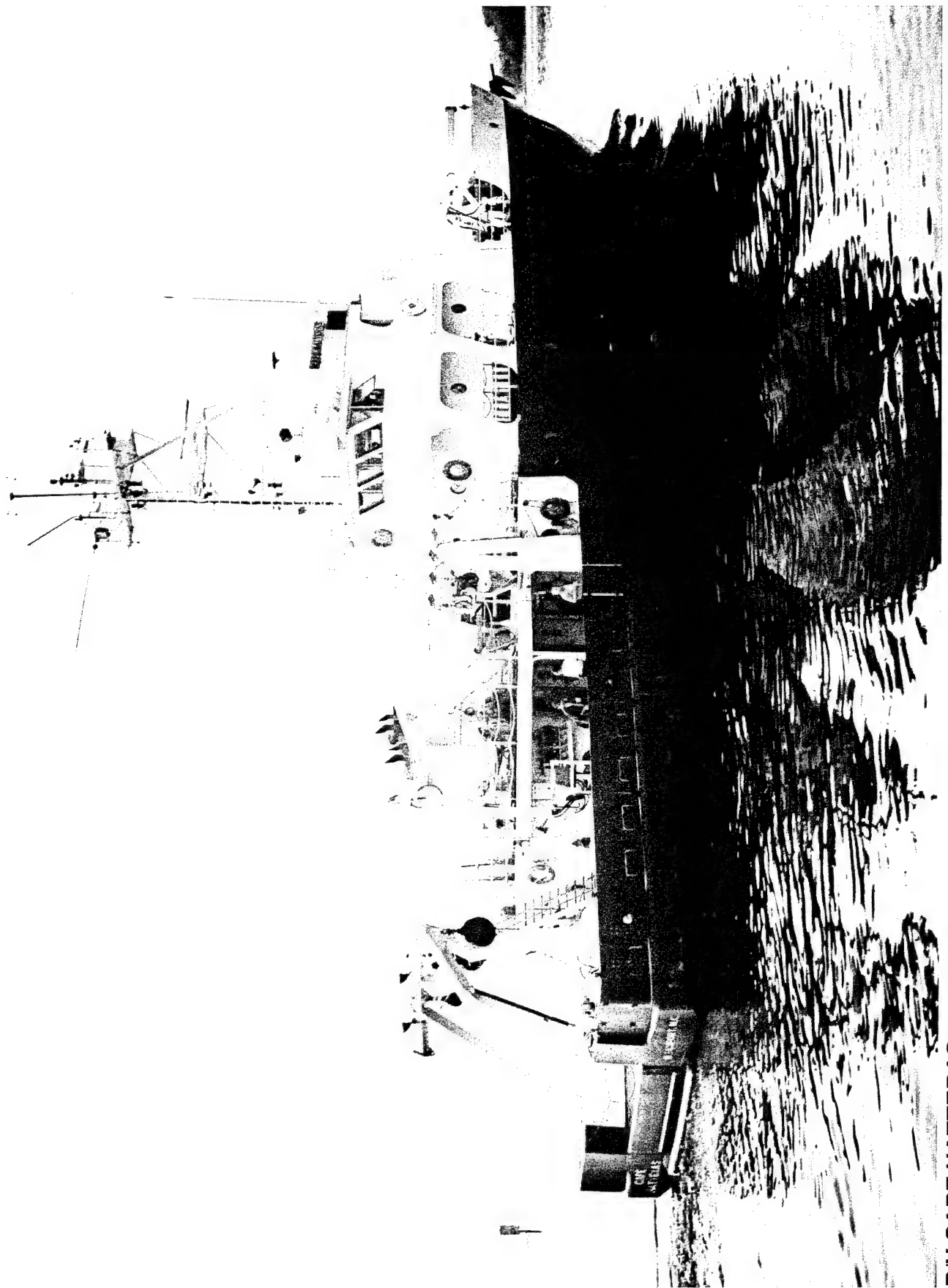
COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	-
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	-
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	-
SOUNDING SYSTEM (DEEP):	RAYTHEON/EDO

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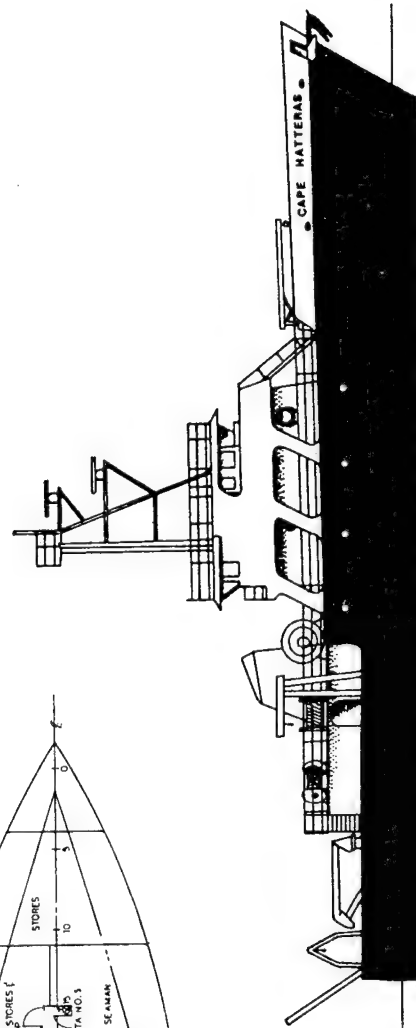
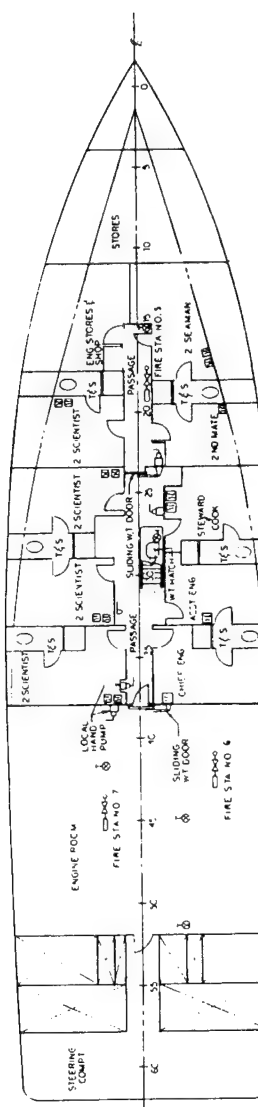
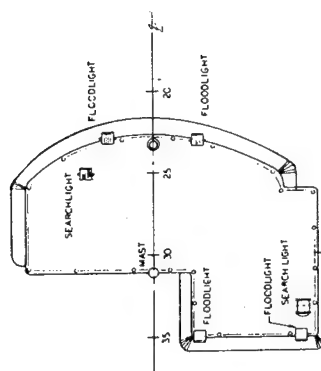
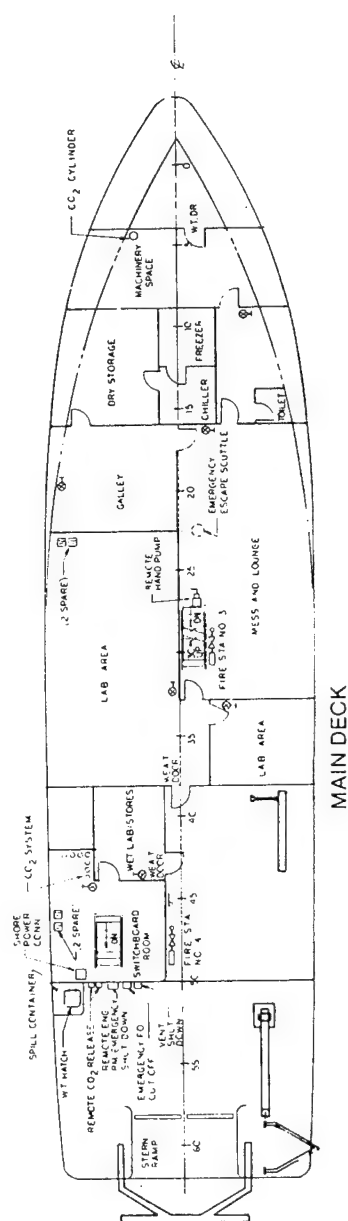
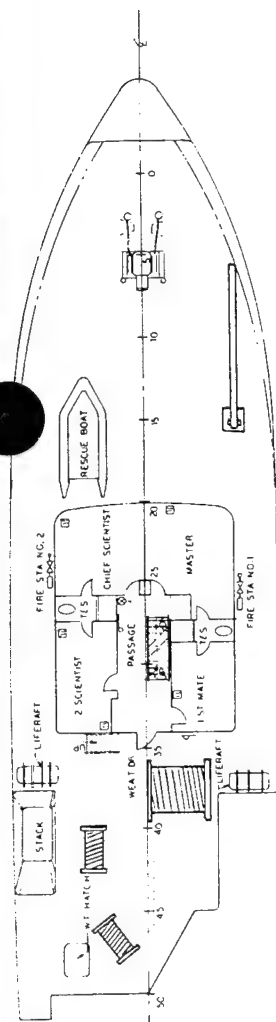
#### FUEL DETAILS

FUEL CAPACITY:	28695 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	800 GAL/24-HRS
DURING AVERAGE OPERATIONS:	740 GAL/24-HRS
DURING INPORT OPERATIONS:	200 GAL/24-HRS

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RV CAPE HATTERAS





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MOANA WAVE

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT JAMES W. COSTE JR  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: UNIVERSITY MARINE CENTER  
POC ADDRESS: #1 SAND ISLAND ROAD  
POC CITY/STATE: HONOLULU HI 96819  
COMMERCIAL AREA CODE: 808  
PHONE: 847-2661  
FAX: 848-5451

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ADMINISTRATIVE DETAILS

DESIGNATOR: AGOR 22  
CLASS: GYRE/AGOR 21  
CALL SIGN (INTERNATIONAL): WUS9293  
FLEET: UNOLS  
SHIP TYPE: RESEARCH AND DEVELOPMENT  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: HONOLULU HI  
TECHNICAL SPONSOR: UNIVERSITY OF HAWAII  
OPERATIONS CONTROL: SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY

CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE 1 JAN 94  
OPERATING COST/DAY: 10.6/91 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 19  
NUMBER OFFICERS: 4  
NUMBER IN CREW: 9  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 50 DAY(S)  
LIMITING FACTOR: REFRIGERATED STORES  
BUILDER: HALTER MARINE SERVICES INC  
WHERE BUILT: NEW ORLEANS LA USA  
INITIAL COST: 3.9/73 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: 18 JUN 73  
DELIVERY DATE: '73  
COMMISSION DATE: '00  
CONVERSION DATE: '84  
LAST OVERHAUL: '89  
MAINTENANCE CYCLE: 3.0 YEARS  
END OF LIFE: 2003  
UPDATE OF INFORMATION: 22 OCT 90

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SHIP DIMENSIONS

LENGTH: 213.0 FEET  
MAX BEAM: 36.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 294  
DISPLACEMENT: 1853 TONS  
DRAUGHT: 15.0 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 12000 NAUTICAL MILES  
MAX SPEED: 11.5 KNOTS  
MIN SPEED: 1.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: ELECTRIC 150 HP  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE  
BERTHING VAN DIMENSIONS: 8X8X24  
INSTRUMENT VAN DIMENSIONS: 8X8X24  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 16 FOOT RUBBER AVON, HARD BOTTOM  
    2. 12 FOOT RUBBER AVON  
    3. 16 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 60000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 11000 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: Y  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 33000 FEET  
        WIRE DIAMETER: 0.322 INCHES

02. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE: CORING  
SLIP-RINGS: 1  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 45000 FEET  
WIRE DIAMETER: 0.562 INCHES

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ELECTRONIC EQUIPMENT

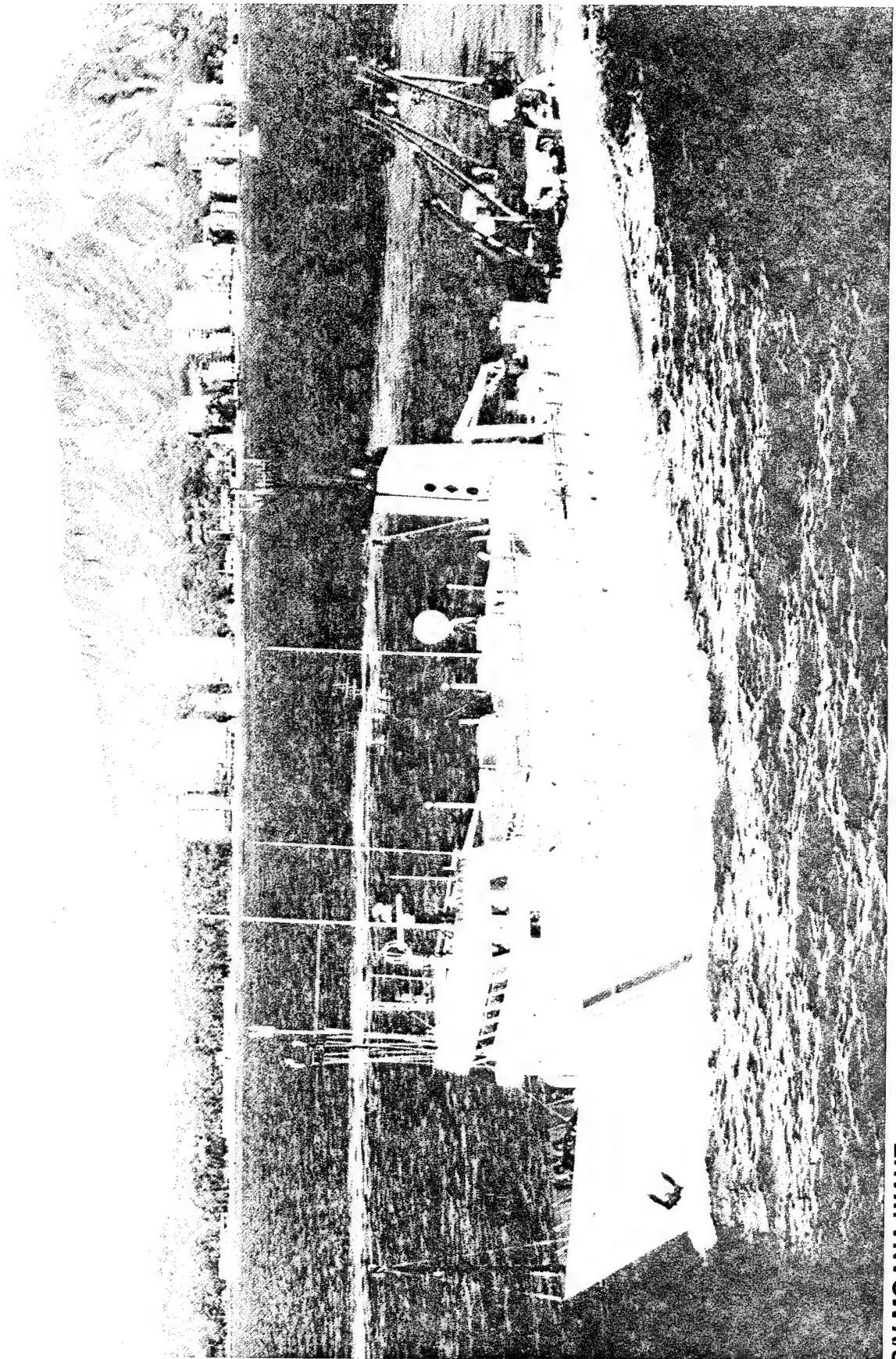
COMPUTERS: NOVA 1220  
FACSIMILE: Y  
ELECTROMAGNETIC LOG: Y  
INERTIAL NAVIGATION: N  
RADAR (SURFACE SCAN): Y  
LORAN A: N  
LORAN C: Y  
OMEGA: Y  
SATELLITE NAVIGATION: Y  
RADIO TELETYPE COMMUNICATION: Y  
SINGLE SIDE BAND: Y  
VHF COMMUNICATIONS: Y  
STABLE TABLE: Y  
NARROW BEAM: N  
SEISMIC PROFILING: Y  
SIDE SCAN: Y  
SOUNDING SYSTEM (SHALLOW): FURUNO  
SOUNDING SYSTEM (DEEP): EDO/RAYTHEON

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FUEL DETAILS

FUEL CAPACITY: 125000 GALLONS  
FUEL TYPE: DIESEL #2/JP-5  
FUEL CONSUMPTION RATES:  
AT NORMAL CRUISING SPEED: 2200 GAL/24-HRS  
DURING AVERAGE OPERATIONS: 1800 GAL/24-HRS  
DURING INPORT OPERATIONS: 300 GAL/24-HRS

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R/V MOANA WAVE

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KILA

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT JAMES W. COSTE JR  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: UNIVERSITY MARINE CENTER  
POC ADDRESS: #1 SAND ISLAND ROAD  
POC CITY/STATE: HONOLULU, HAWAII 96819  
COMMERCIAL AREA CODE: 808  
PHONE: 847 2661

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ADMINISTRATIVE DETAILS

DESIGNATOR: -  
CLASS: RESEARCH  
CALL SIGN (INTERNATIONAL): WRP2537  
FLEET: UNOLS  
SHIP TYPE: FISHING TRAWLER  
SHIP OWNER: HAWAII INSTITUTE OF GEOPHYSICS  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: HONOLULU, HAWAII  
TECHNICAL SPONSOR: UNIVERSITY OF HAWAII  
OPERATIONS CONTROL: HAWAII INSTITUTE OF GEOPHYSICS  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 3.6/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 4  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL/REFRIG. STORES  
BUILDER: BENDER WELDING & MACHINE CO., MOBILE  
WHERE BUILT: MOBILE ALABAMA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '77  
DELIVERY DATE: '00  
COMMISSION DATE: '00  
CONVERSION DATE: '82  
LAST OVERHAUL: '89  
MAINTENANCE CYCLE: 3.0 YEARS  
END OF LIFE: 1992  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 104.0 FEET  
MAX BEAM: 24.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 192  
DISPLACEMENT: - TONS  
DRAUGHT: 12.9 FEET  
CRUISE SPEED: 8.0 KNOTS  
RANGE: 5000 NAUTICAL MILES  
MAX SPEED: 8.0 KNOTS  
MIN SPEED: 2.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: 343 DIESELS  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: NO  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: Y  
DRY-LAB: N  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 12 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 20000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 7000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: UTILITY  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 3000 FEET  
        WIRE DIAMETER: 0.500 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	RAYTHEON

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FUEL DETAILS

FUEL CAPACITY:	24500 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	820 GAL/24-HRS
DURING AVERAGE OPERATIONS:	500 GAL/24-HRS
DURING INPORT OPERATIONS:	25 GAL/24-HRS

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EDWIN LINK

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. TIMOTHY ASKEW  
POC OFFICE: DIRECTOR, MARINE OPERATIONS  
POC ORGANIZATION: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.  
POC ADDRESS: 5600 OLD DIXIE HIGHWAY  
POC CITY/STATE: FORT PIERCE FL 34946  
COMMERCIAL AREA CODE: 407  
PHONE: 465-2400 EXT 262  
FAX: 465-2446  
TELEX: 522886

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: OFFSHORE SUPPLY VESSEL  
CALL SIGN (INTERNATIONAL): WTL4798  
FLEET: UNOLS  
SHIP TYPE: SUBMERSIBLE TENDER/OCEAN RESEARCH  
SHIP OWNER: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: FT PIERCE FL  
TECHNICAL SPONSOR: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
OPERATIONS CONTROL: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 7.8/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 20  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 5  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL/STORES  
BUILDER: HOUMA FABRICATORS  
WHERE BUILT: HOUMA, LA USA  
INITIAL COST: N/A MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '81  
LAUNCH DATE: '81  
DELIVERY DATE: '82  
COMMISSION DATE: '82  
CONVERSION DATE: '88  
LAST OVERHAUL: '87  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2020  
UPDATE OF INFORMATION: 03 DEC 90



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SHIP DIMENSIONS

LENGTH: 168.0 FEET  
MAX BEAM: 38.0 FEET  
HEIGHT: 60.0 FEET  
GROSS TONNAGE: 288  
DISPLACEMENT: 781 TONS  
DRAUGHT: 11.0 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 6000 NAUTICAL MILES  
MAX SPEED: 11.0 KNOTS  
MIN SPEED: 0.1 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: 360 DEG STEERABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 17 FOOT RUBBER INFLATABLE  
    2. 13 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 36000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 10000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: OTHER  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 300 FEET  
        WIRE DIAMETER: 1.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 4200 FEET  
        WIRE DIAMETER: 0.188 INCHES

03. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE: UTILITY  
SLIP-RINGS: Y  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 3000 FEET  
WIRE DIAMETER: 0.188 INCHES  
SECONDARY WIRE TYPE: CONDUCTOR CABLE

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#### ELECTRONIC EQUIPMENT

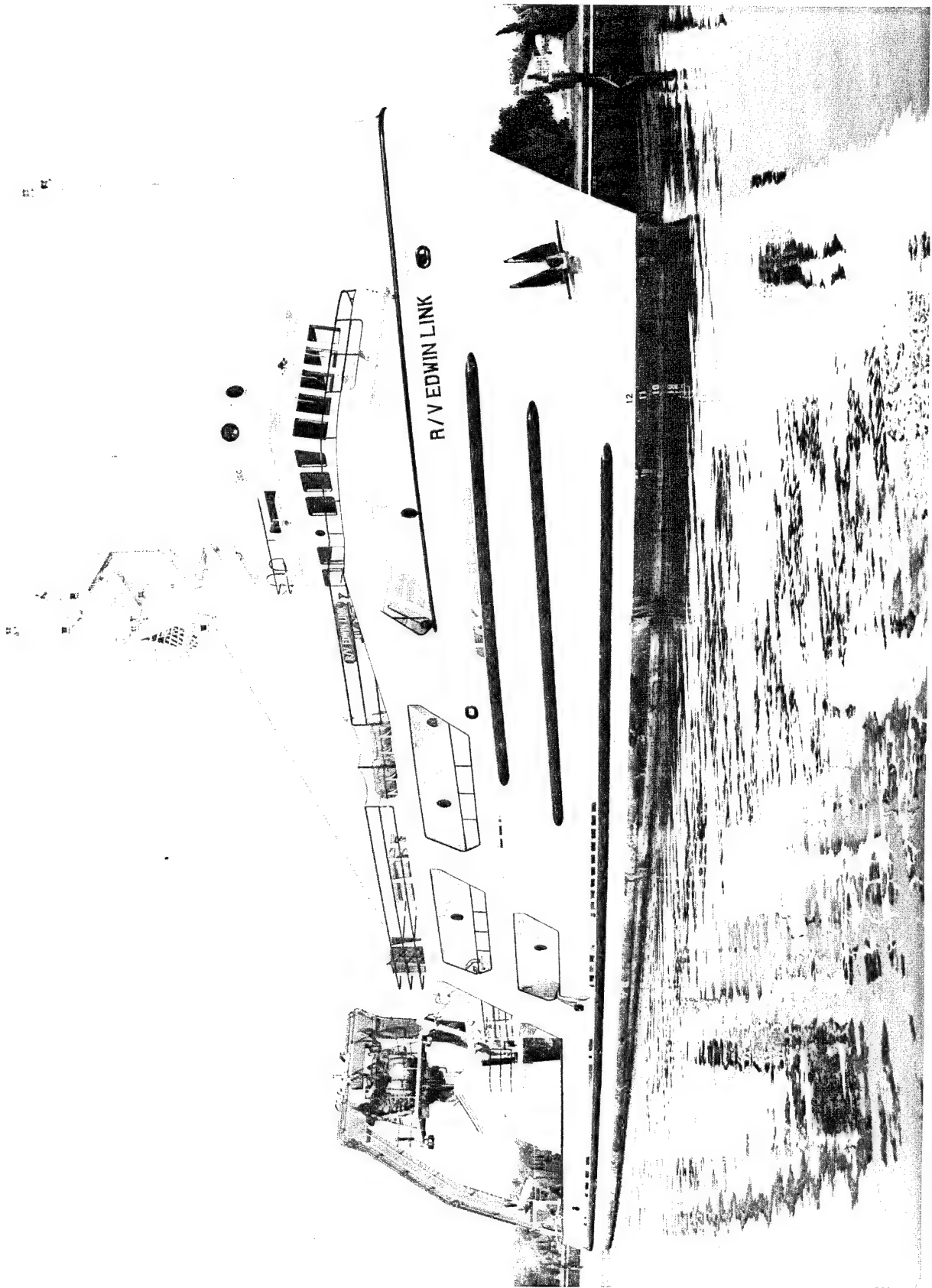
COMPUTERS: NEC, VARIOUS PC'S  
FACSIMILE: Y  
ELECTROMAGNETIC LOG: N  
INERTIAL NAVIGATION: N  
RADAR (SURFACE SCAN): Y  
LORAN A: N  
LORAN C: Y  
OMEGA: N  
SATELLITE NAVIGATION: Y  
RADIO TELETYPE COMMUNICATION: N  
SINGLE SIDE BAND: Y  
VHF COMMUNICATIONS: Y  
STABLE TABLE: N  
NARROW BEAM: N  
SEISMIC PROFILING: Y  
SIDE SCAN: Y  
SOUNDING SYSTEM (SHALLOW): FURUNO, IMPULSE 960  
SOUNDING SYSTEM (DEEP): FURUNO

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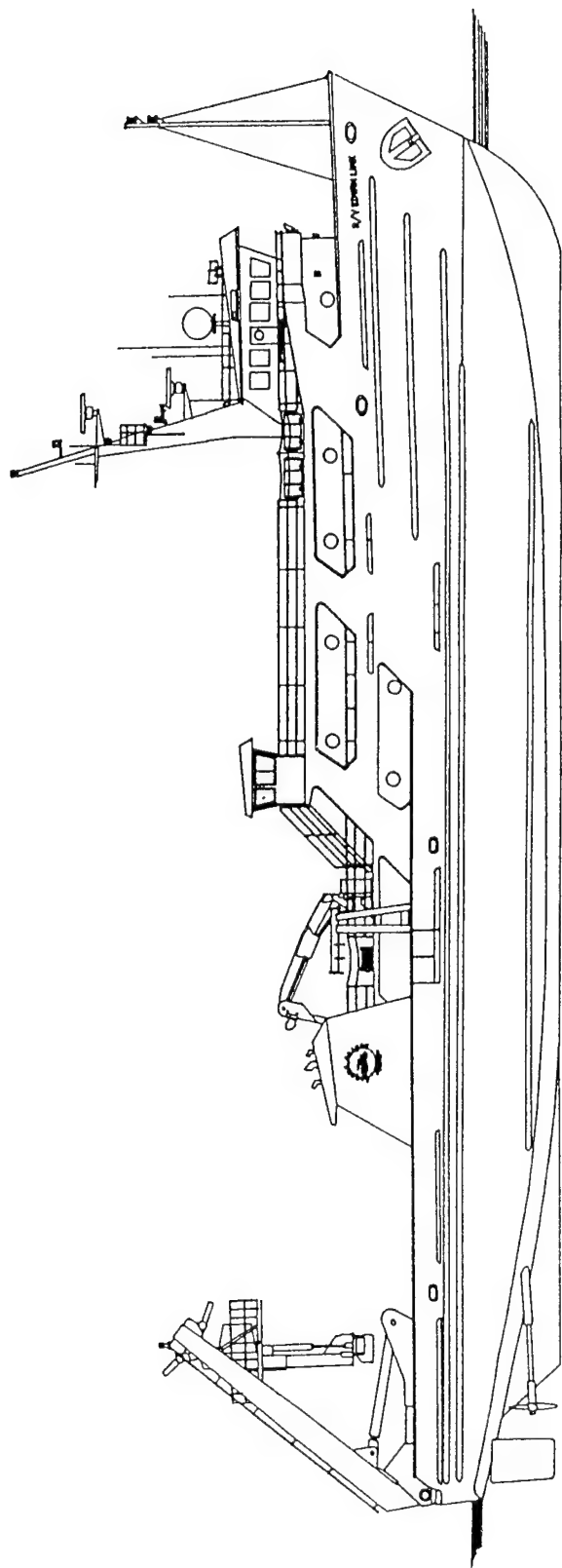
#### FUEL DETAILS

FUEL CAPACITY: 62000 GALLONS  
FUEL TYPE: DIESEL #2  
FUEL CONSUMPTION RATES:  
AT NORMAL CRUISING SPEED: 2400 GAL/24-HRS  
DURING AVERAGE OPERATIONS: 900 GAL/24-HRS  
DURING INPORT OPERATIONS: 192 GAL/24-HRS

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R/V EDWIN LINK



R/V EDWIN LINK  
OUTBOARD PROFILE

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SEWARD JOHNSON

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. TIM ASKEW  
POC OFFICE: DIRECTOR, MARINE OPERATIONS  
POC ORGANIZATION: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.  
POC ADDRESS: 5600 OLD DIXIE HIGHWAY  
POC CITY/STATE: FT. PIERCE, FL 34946  
COMMERCIAL AREA CODE: 407  
PHONE: 465-2400 EXT 262  
FAX: 465-2446  
TELEX: 522886

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: COLOMBUS ISELIN  
CALL SIGN (INTERNATIONAL): WST9756  
FLEET: UNOLS  
SHIP TYPE: SUBMERSIBLE TENDER/OCEAN RESEARCH  
SHIP OWNER: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: FT. PIERCE, FL  
TECHNICAL SPONSOR: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
OPERATIONS CONTROL: HARBOR BRANCH OCEANOGRAPHIC INSTITUTION  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 7.8/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 20  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 5  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL/STORES  
BUILDER: ATLANTIC MARINE INC  
WHERE BUILT: FORT GEORGE ISLAND FL  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '84  
LAUNCH DATE: '84  
DELIVERY DATE: '85  
COMMISSION DATE: '85  
CONVERSION DATE: '00  
LAST OVERHAUL: '90  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2020  
UPDATE OF INFORMATION: 03 DEC 90

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SHIP DIMENSIONS

LENGTH: 176.0 FEET  
MAX BEAM: 36.0 FEET  
HEIGHT: 60.0 FEET  
GROSS TONNAGE: 299  
DISPLACEMENT: 880 TONS  
DRAUGHT: 12.0 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 8000 NAUTICAL MILES  
MAX SPEED: 13.0 KNOTS  
MIN SPEED: 0.1 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: 360 DEG STEERABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: Y  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 17 FOOT RUBBER INFLATABLE  
    2. 13 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 36000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 10000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: OTHER  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 300 FEET  
        WIRE DIAMETER: 1.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 3000 FEET  
        WIRE DIAMETER: 0.188 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	3000 FEET
WIRE DIAMETER:	0.188 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	NEC, VARIOUS PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO

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FUEL DETAILS

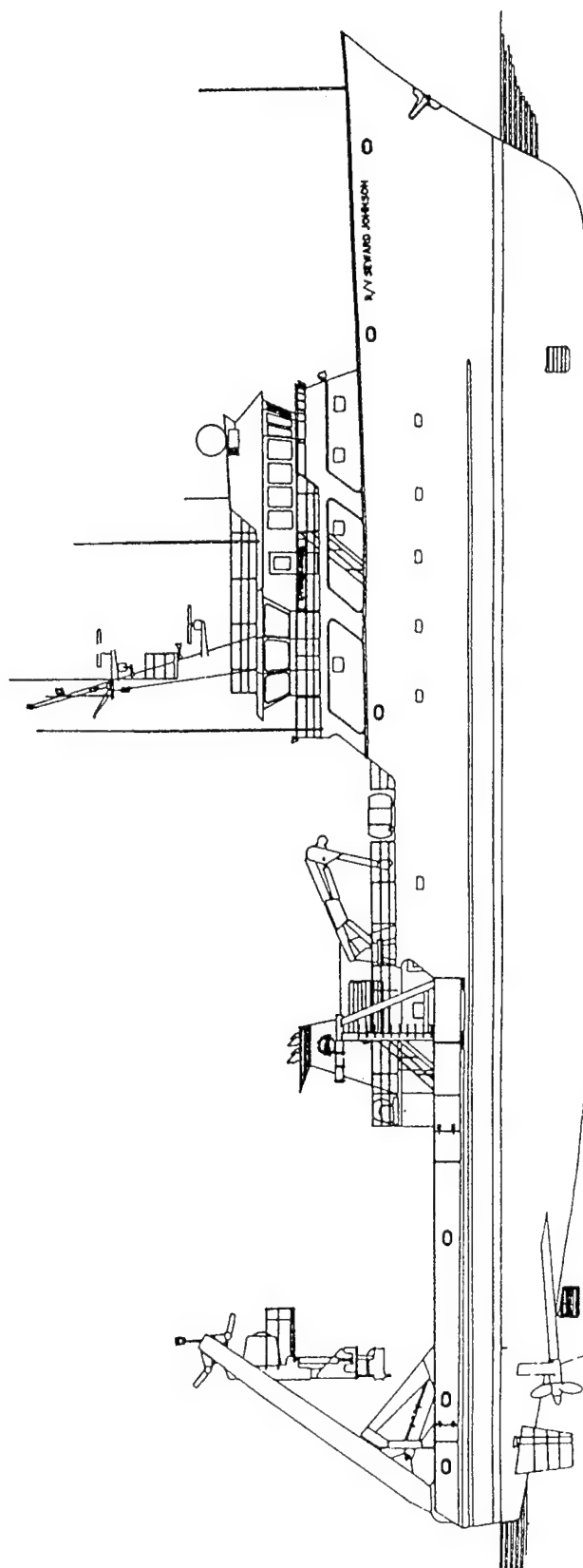
FUEL CAPACITY:	60000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2160 GAL/24-HRS
DURING AVERAGE OPERATIONS:	720 GAL/24-HRS
DURING INPORT OPERATIONS:	160 GAL/24-HRS

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R/V SEWARD JOHNSON





R/V SEWARD JOHNSON  
OUTBOARD PROFILE

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MAURICE EWING

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT. PAUL LJUNGGREN  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: OFFICE OF MARINE AFFAIRS  
POC ADDRESS: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY  
POC CITY/STATE: PALISADES, NY 10964  
COMMERCIAL AREA CODE: 914  
PHONE: 359-2900 EXT. 367

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: SEISMIC SURVEY  
CALL SIGN (INTERNATIONAL): WLDZ  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - GENERAL  
SHIP OWNER: COLUMBIA UNIVERSITY  
CERTIFICATION AUTHORITY: US COAST GUARD - ABS  
FLAG REGISTRY: USA  
HOME PORT: NEW YORK NY  
TECHNICAL SPONSOR: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY  
OPERATIONS CONTROL: LDGO OFFICE OF MARINE AFFAIRS  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 15.1/91 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 28  
NUMBER OFFICERS: 9  
NUMBER IN CREW: 13  
MAX SEA STATE: 8 BEAUFORT SCALE  
ENDURANCE: 60 DAY(S)  
LIMITING FACTOR: FUEL  
BUILDER: MARINE INDUSTRIE LIMITEE  
WHERE BUILT: SOREL P.Q. CANADA  
INITIAL COST: - MILLION \$'S IN YEAR  
DUE DATE: -  
KEEL DATE: OCT 82  
LAUNCH DATE: -  
DELIVERY DATE: JUL 83  
COMMISSION DATE: -  
CONVERSION DATE: JUN 90  
LAST OVERHAUL: JUN 90  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: -  
UPDATE OF INFORMATION: 10 DEC 90

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SHIP DIMENSIONS

LENGTH: 239.0 FEET  
MAX BEAM: 46.0 FEET  
HEIGHT: 100.0 FEET  
GROSS TONNAGE: 1978  
DISPLACEMENT: 2637 TONS  
DRAUGHT: 18.0 FEET  
CRUISE SPEED: 11.5 KNOTS  
RANGE: 15000 NAUTICAL MILES  
MAX SPEED: 13.4 KNOTS  
MIN SPEED: 1.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC SCR  
AUXILIARY PROPULSION: DIESEL ELECTRIC SCR  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: TUNNEL  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: N  
BERTHING VAN DIMENSIONS: N  
INSTRUMENT VAN DIMENSIONS: 8X8X20 (3)  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: MINIMAL  
UTILITY BOATS:  
    1. 17 FOOT RIB  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 40000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 12000 POUNDS  
    NUMBER OF CRANES: 3  
WINCHES:  
    01. MAJOR TYPE/USE: CORING  
        SECONDARY TYPE/USE: DREDGE  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.562 INCHES  
        SECONDARY WIRE TYPE: CONDUCTOR CABLE  
        SECONDARY WIRE LEN: 30000 FEET  
        SECONDARY WIRE DIAM: 0.680 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	3
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.320 INCHES
03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	OTHER
SLIP-RINGS:	3
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.250 INCHES

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#### ELECTRONIC EQUIPMENT

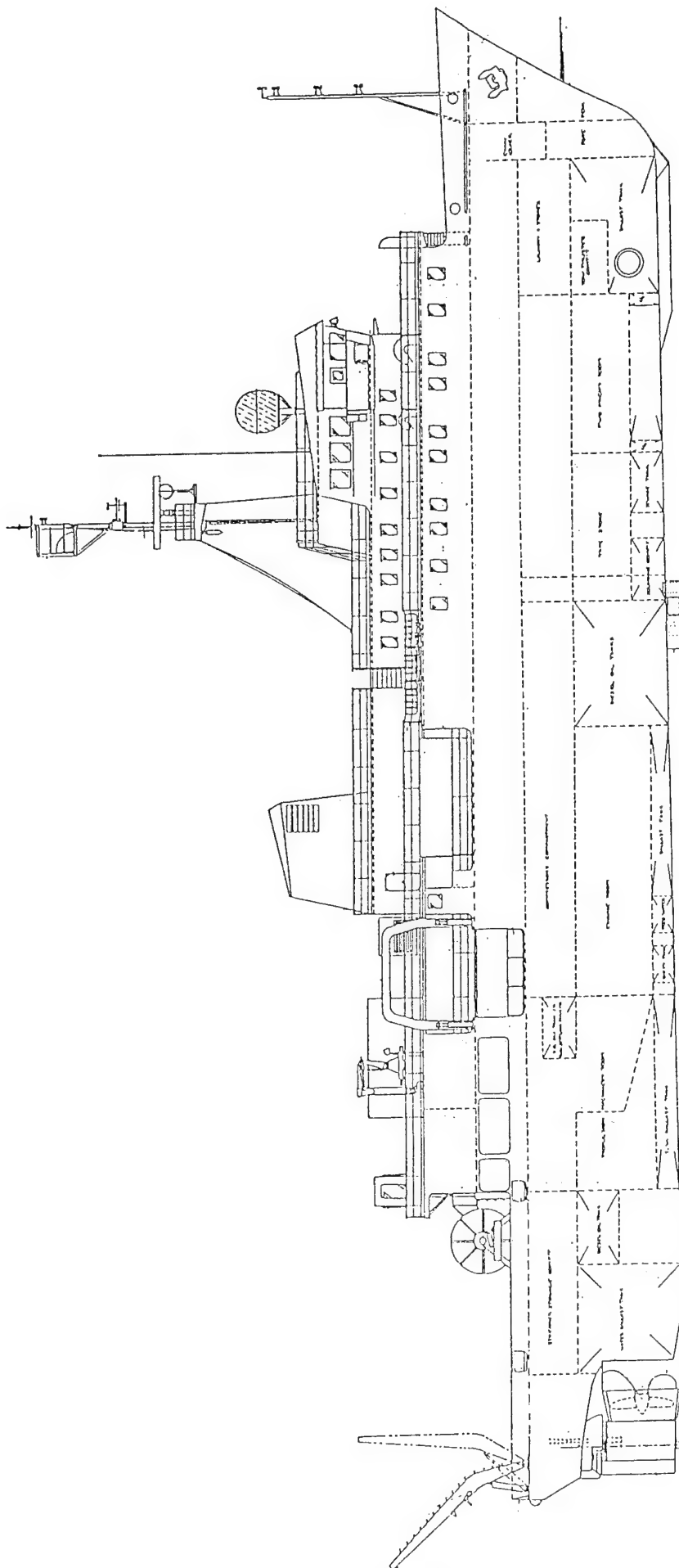
COMPUTERS:	HASSCOMP, VAX, SGI, IBM
FACSIMILE:	N
ELECTROMAGNETIC LOG:	DOPPLER
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ELAC
SOUNDING SYSTEM (DEEP):	12 & 3.5 KHZ, MULTIBEAM

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#### FUEL DETAILS

FUEL CAPACITY:	160000 GALLONS
FUEL TYPE:	MARINE GAS OIL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2500 GAL/24-HRS
DURING INPORT OPERATIONS:	1250 GAL/24-HRS

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R/V MAURICE EWING  
OUTBOARD PROFILE

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PELICAN

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR STEVE RABALAIS  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: LOUISIANA UNIVERSITY MARINE CONSORTIUM  
POC ADDRESS: LUMCON  
POC CITY/STATE: CHAUVIN LA 70344  
COMMERCIAL AREA CODE: 504  
PHONE: 851-2800

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: OCEANOGRAPHIC RESEARCH  
CALL SIGN (INTERNATIONAL): WSK3051  
FLEET: UNOLS  
SHIP TYPE: GENERAL OCEAN RESEARCH  
SHIP OWNER: LOUISIANA UNIVERSITY MARINE CONSORTIUM  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: COCODRIE LA USA  
TECHNICAL SPONSOR: LOUISIANA UNIVERSITY MARINE CONSORTIUM  
OPERATIONS CONTROL: LOUISIANA UNIVERSITY MARINE CONSORTIUM  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 3.2/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 15  
NUMBER OFFICERS: 3  
NUMBER IN CREW: 2  
MAX SEA STATE: 4 BEAUFORT SCALE  
ENDURANCE: 18 DAY(S)  
LIMITING FACTOR: REFRIGERATED STORES  
BUILDER: ALLIED SHIPYARD  
WHERE BUILT: LAROSE LA USA  
INITIAL COST: 1.7/85 MILLION \$'S IN YEAR  
DUE DATE: 15 FEB 85  
KEEL DATE: 00 NOV 83  
LAUNCH DATE: '85  
DELIVERY DATE: '85  
COMMISSION DATE: '85  
CONVERSION DATE: '00  
LAST OVERHAUL: '00  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 2010  
UPDATE OF INFORMATION: 24 OCT 90

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SHIP DIMENSIONS

LENGTH: 105.0 FEET  
MAX BEAM: 26.5 FEET  
HEIGHT: 48.0 FEET  
GROSS TONNAGE: 291  
DISPLACEMENT: 244 TONS  
DRAUGHT: 9.0 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 3490 NAUTICAL MILES  
MAX SPEED: 9.0 KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: HYDRAULIC TUNNEL  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE  
BERTHING VAN DIMENSIONS: 8X8X10  
INSTRUMENT VAN DIMENSIONS: 8X8X10  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: YES  
UTILITY BOATS:  
    1. 13 FOOT UTILITY  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 36000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 8000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 18000 FEET  
        WIRE DIAMETER: 0.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 10500 FEET  
        WIRE DIAMETER: 0.187 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	24000 FEET
WIRE DIAMETER:	0.219 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	ZENITH 386
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	DATA SONICS

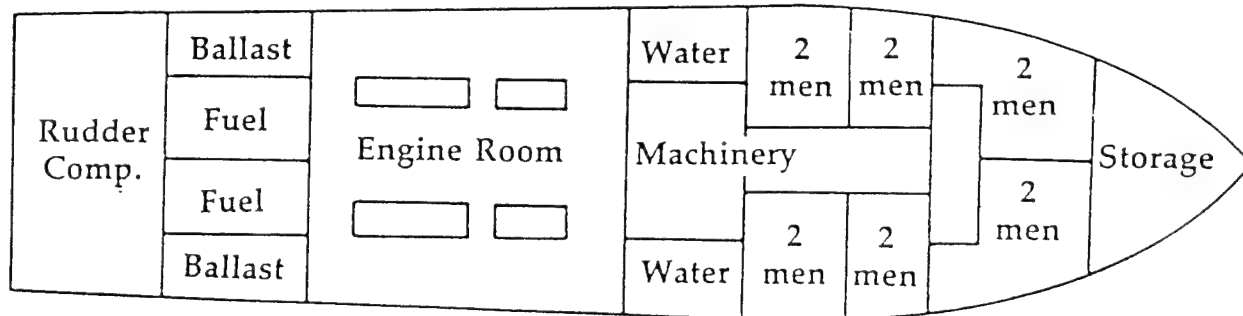
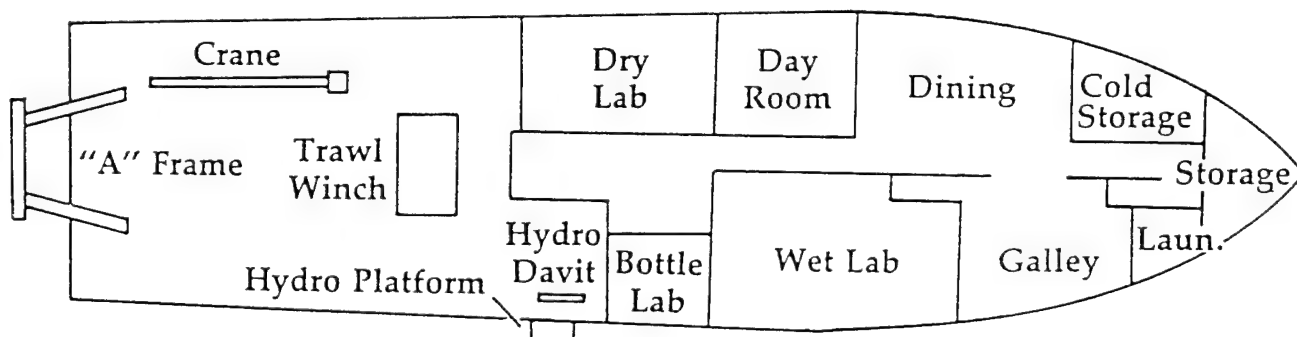
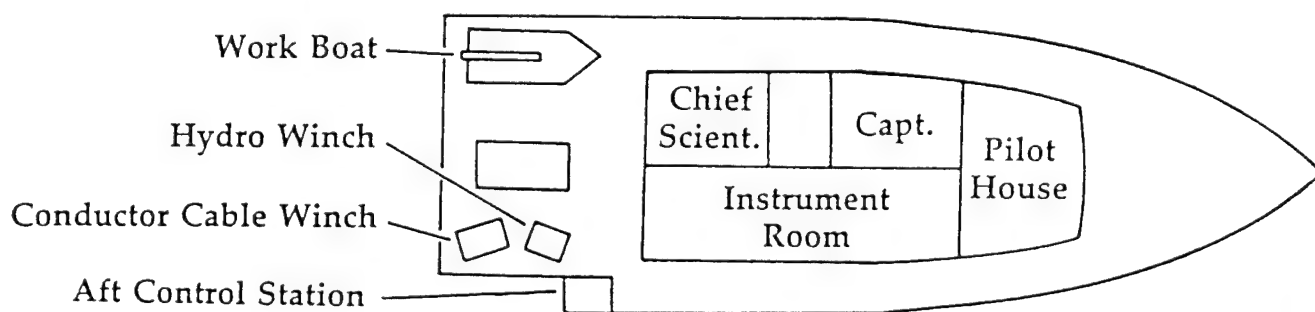
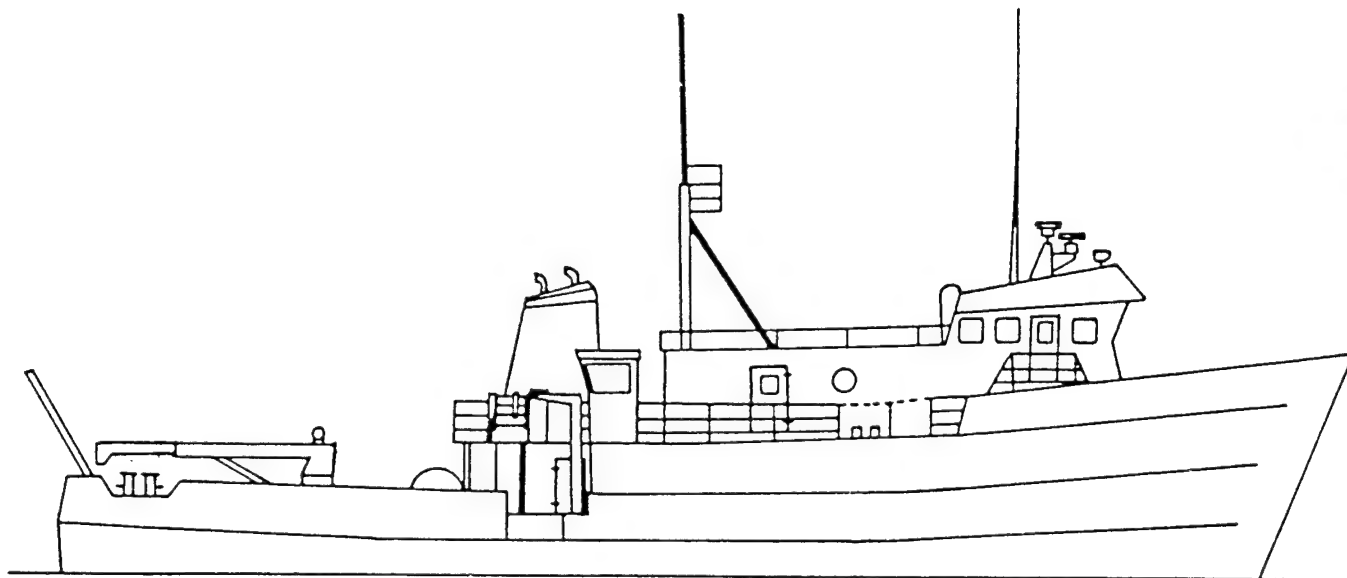
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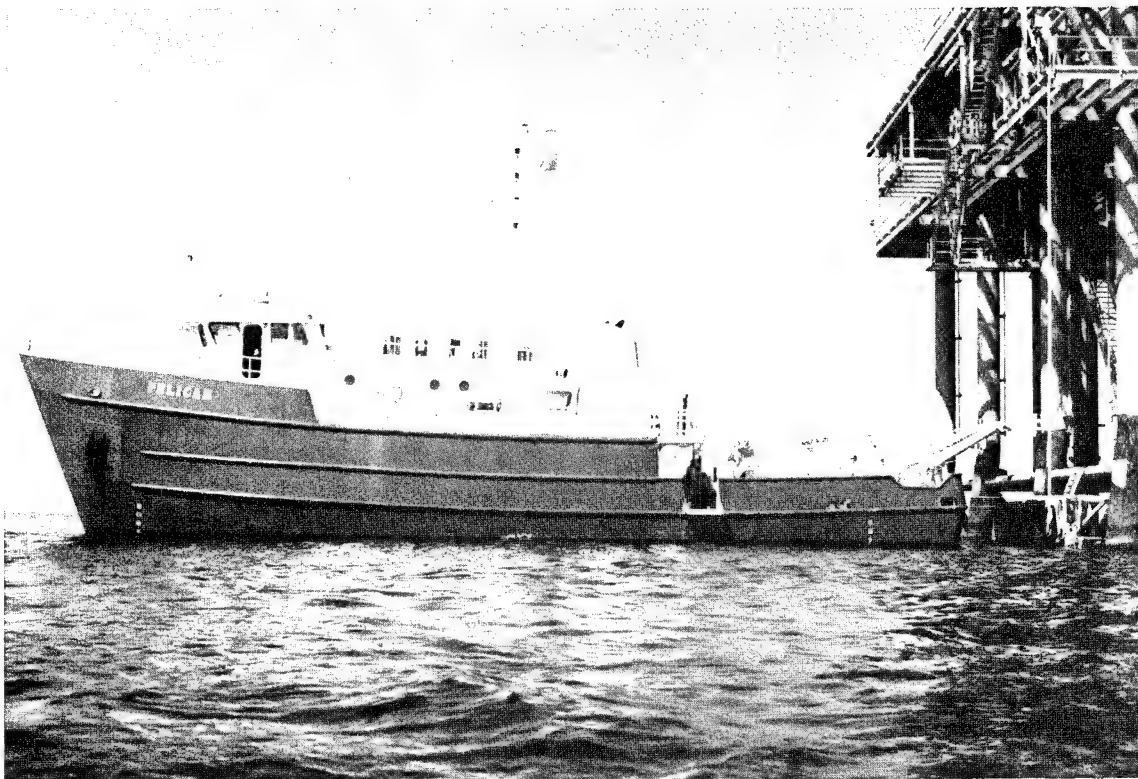
#### FUEL DETAILS

FUEL CAPACITY:	15724 GALLONS
FUEL TYPE:	DIESEL #2/DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	600 GAL/24-HRS
DURING AVERAGE OPERATIONS:	400 GAL/24-HRS
DURING INPORT OPERATIONS:	150 GAL/24-HRS

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R/V PELICAN

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CALANUS

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. RON HUTCHINSON  
POC OFFICE: MANAGER, MARINE OPERATIONS  
POC ORGANIZATION: UNIVERSITY OF MIAMI  
POC ADDRESS: 4600 RICKENBACKER CAUSEWAY  
POC CITY/STATE: MIAMI FL 33149  
COMMERCIAL AREA CODE: 305  
PHONE: 361-4880

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ADMINISTRATIVE DETAILS

DESIGNATOR: ORV  
CLASS: CLASS E  
CALL SIGN (INTERNATIONAL): WTR7339  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: UNIVERSITY OF MIAMI  
CERTIFICATION AUTHORITY: NONE  
FLAG REGISTRY: USA  
HOME PORT: MIAMI FL  
TECHNICAL SPONSOR: UNIVERSITY OF MIAMI  
OPERATIONS CONTROL: UNIVERSITY OF MIAMI  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 2.2/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 6  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 1  
MAX SEA STATE: 4 BEAUFORT SCALE  
ENDURANCE: 15 DAY(S)  
LIMITING FACTOR: CREW  
BUILDER: ATLANTIC MARINE INC  
WHERE BUILT: JACKSONVILLE FL USA  
INITIAL COST: .089/71 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 00 MAR 71  
LAUNCH DATE: '71  
DELIVERY DATE: 00 SEP 71  
COMMISSION DATE: 00 OCT 71  
CONVERSION DATE: '00  
LAST OVERHAUL: '85  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 1995  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 69.0 FEET  
MAX BEAM: 20.0 FEET  
HEIGHT: 24.0 FEET  
GROSS TONNAGE: 83  
DISPLACEMENT: 88 TONS  
DRAUGHT: 4.9 FEET  
CRUISE SPEED: 6.5 KNOTS  
RANGE: 2500 NAUTICAL MILES  
MAX SPEED: 7.0 KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: NO  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X12  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 13 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 5000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 1500 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: CTD  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 10000 FEET  
        WIRE DIAMETER: 0.322 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE:  
        SLIP-RINGS:  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 6000 FEET  
        WIRE DIAMETER: 0.187 INCHES

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ELECTRONIC EQUIPMENT

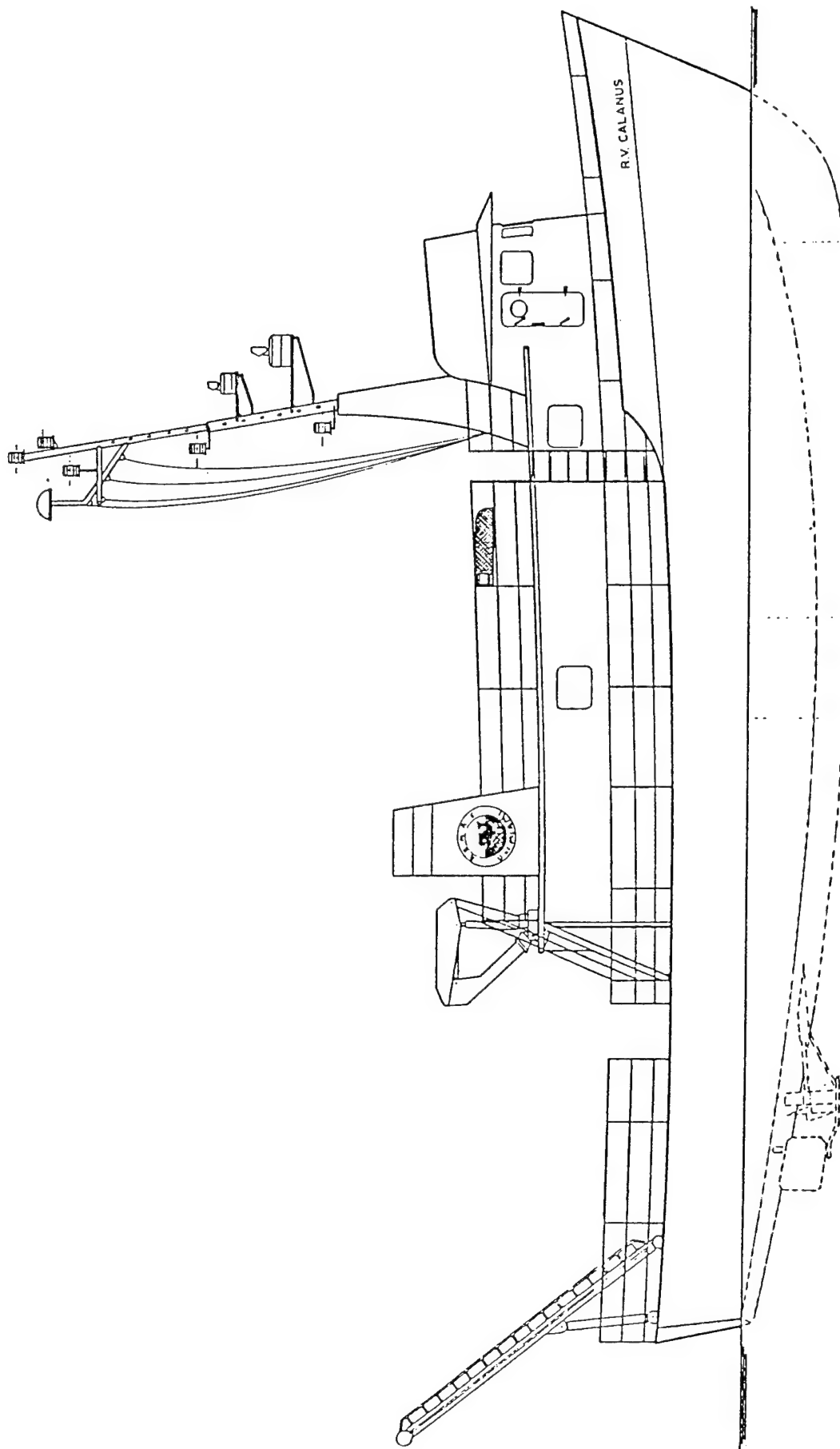
COMPUTERS:	HP 85 (2)
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON

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FUEL DETAILS

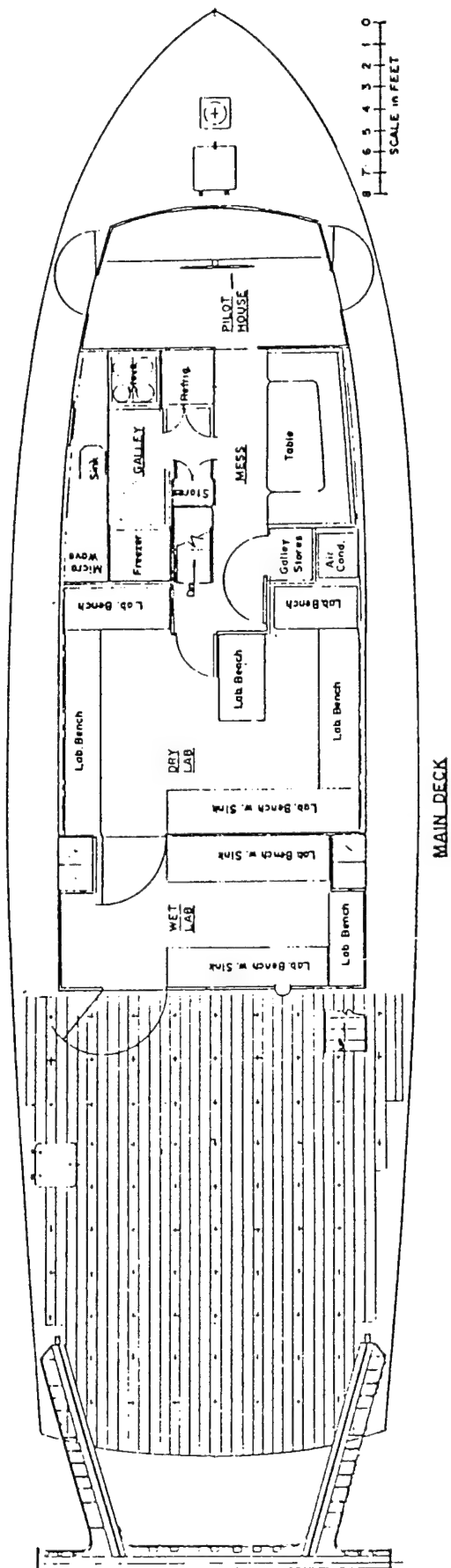
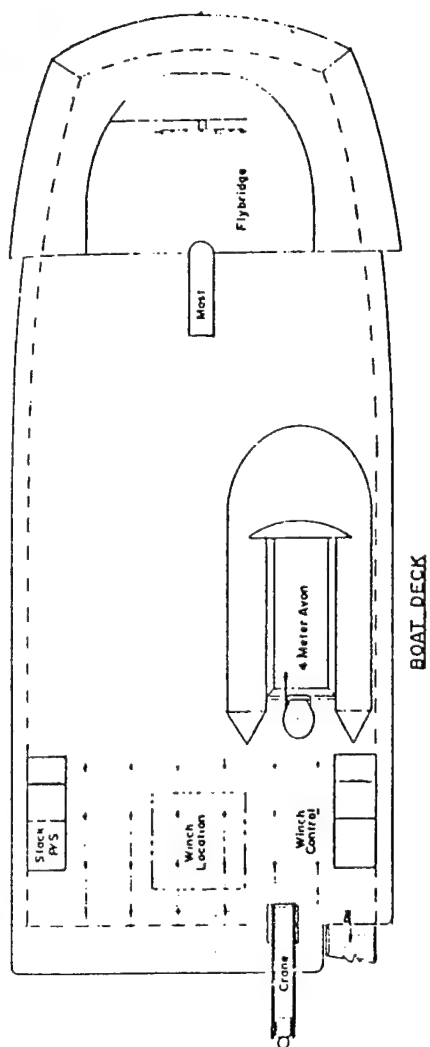
FUEL CAPACITY:	4800 GALLONS
FUEL TYPE:	MG-O/DIESEL #2/LIGHT DO
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	216 GAL/24-HRS
DURING AVERAGE OPERATIONS:	150 GAL/24-HRS
DURING INPORT OPERATIONS:	20 GAL/24-HRS

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OUTBOARD PROFILE

**R/V CALANUS**



R/V CALANUS

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COLUMBUS ISELIN

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR RON HUTCHINSON  
POC OFFICE: MANAGER, MARINE OPERATIONS  
POC ORGANIZATION: UNIVERSITY OF MIAMI  
POC ADDRESS: 4600 RICKENBACKER CAUSEWAY  
POC CITY/STATE: MIAMI FL 33149  
COMMERCIAL AREA CODE: 305  
PHONE: 361-4080

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ADMINISTRATIVE DETAILS

DESIGNATOR: ORV  
CLASS: CLASS C  
CALL SIGN (INTERNATIONAL): WTB5807  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: UNIVERSITY OF MIAMI  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: MIAMI FL  
TECHNICAL SPONSOR: UNIVERSITY OF MIAMI  
OPERATIONS CONTROL: UNIVERSITY OF MIAMI  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 8.7/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 24  
NUMBER OFFICERS: 6  
NUMBER IN CREW: 6  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: CREW  
BUILDER: J BELLINGER SHIPYARDS INC  
WHERE BUILT: JACKSONVILLE FL USA  
INITIAL COST: 1.4/72 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 00 FEB 71  
LAUNCH DATE: '71  
DELIVERY DATE: 15 SEP 72  
COMMISSION DATE: 15 SEP 72  
CONVERSION DATE: '00  
LAST OVERHAUL: '85  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 2002  
UPDATE OF INFORMATION: 27 APR 90



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SHIP DIMENSIONS

LENGTH: 170.0 FEET  
MAX BEAM: 36.0 FEET  
HEIGHT: 60.0 FEET  
GROSS TONNAGE: 281  
DISPLACEMENT: 830 TONS  
DRAUGHT: 10.5 FEET  
CRUISE SPEED: 12.5 KNOTS  
RANGE: 9700 NAUTICAL MILES  
MAX SPEED: 14.5 KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: TUNNEL  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:

1. 18 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 20000 POUNDS  
NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 10000 POUNDS  
NUMBER OF CRANES: 2

WINCHES:

01. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE: CORING  
SLIP-RINGS: Y  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 33000 FEET  
WIRE DIAMETER: 0.562 INCHES  
02. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE: CTD  
SLIP-RINGS: Y  
WIRE TYPE: CONDUCTOR CABLE  
WIRE LENGTH: 33000 FEET  
WIRE DIAMETER: 0.322 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.187 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	MICROVAX III, IBM PCS
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	EDO/RAYTHEON

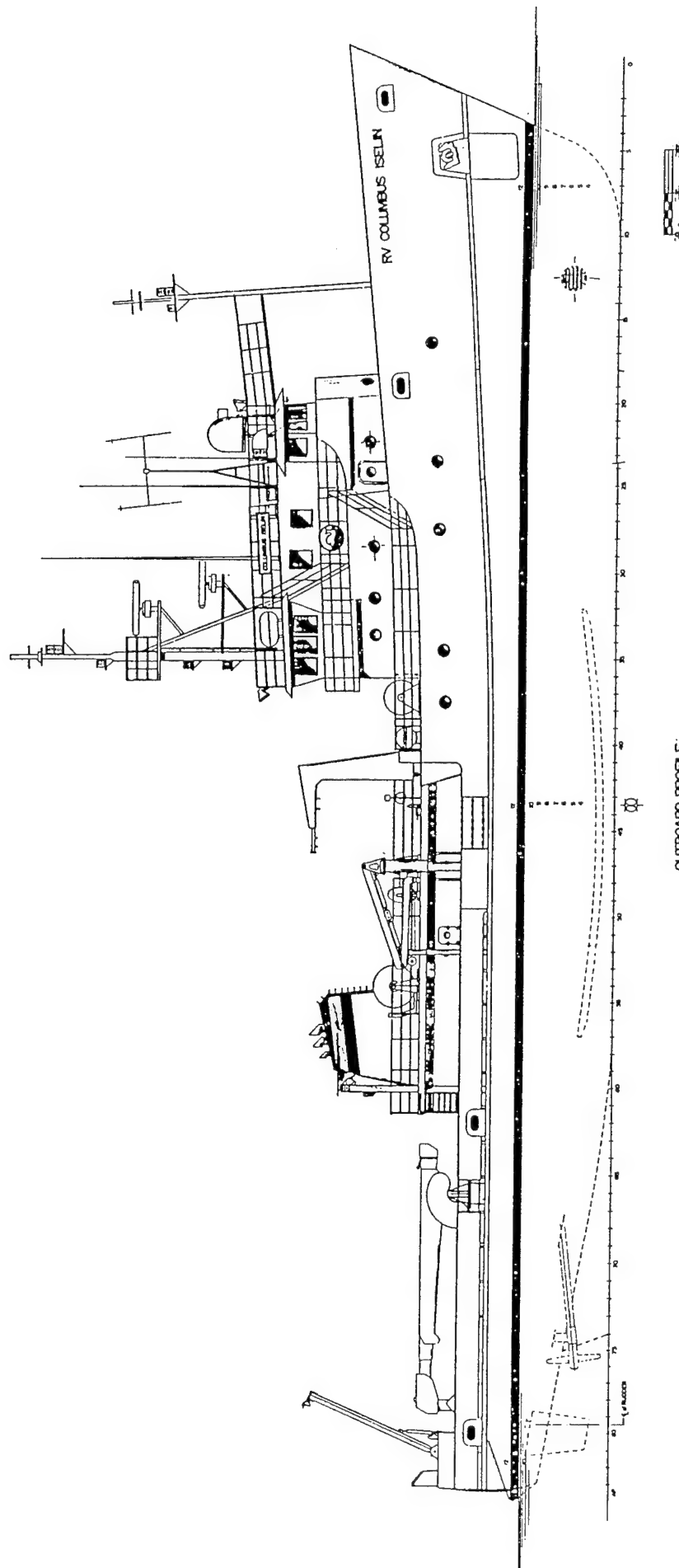
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FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2/MG-O/LIGHT DO
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	869 GAL/24-HRS
DURING INPORT OPERATIONS:	160 GAL/24-HRS

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POINT SUR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR MICHAEL PRINCE  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: MOSS LANDING MARINE LABORATORY  
POC ADDRESS: P.O. BOX 450  
POC CITY/STATE: MOSS LANDING CA 95039  
COMMERCIAL AREA CODE: 408  
PHONE: 633-3534

ADMINISTRATIVE DETAILS

DESIGNATOR: CLASS D  
CLASS: COASTAL ZONE R/V  
CALL SIGN (INTERNATIONAL): WSC2276  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - COASTAL ZONE  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: MOSS LANDING CA USA  
TECHNICAL SPONSOR: MOSS LANDING MARINE LABORATORY  
OPERATIONS CONTROL: MOSS LANDING MARINE LABORATORY  
CONTRACTUAL INFORMATION: NSF CHARTER PARTY AGREEMENT. EXPIRES 1995.  
OPERATING COST/DAY: 6.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 4  
MAX SEA STATE: 7 BEAUFORT SCALE  
ENDURANCE: 21 DAY(S)  
LIMITING FACTOR: DRY STORES  
BUILDER: ATLANTIC MARINE INC.  
WHERE BUILT: FORT GEORGE ISLAND FL  
INITIAL COST: 3.0/81 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 15 JUN 80  
LAUNCH DATE: 15 FEB 81  
DELIVERY DATE: 20 MAY 81  
COMMISSION DATE: 24 JUN 81  
CONVERSION DATE: '00  
LAST OVERHAUL: '89  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 2006  
UPDATE OF INFORMATION: 30 NOV 90

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SHIP DIMENSIONS

LENGTH: 135.0 FEET  
MAX BEAM: 32.0 FEET  
HEIGHT: 58.0 FEET  
GROSS TONNAGE: 294  
DISPLACEMENT: 539 TONS  
DRAUGHT: 9.0 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 7680 NAUTICAL MILES  
MAX SPEED: 11.0 KNOTS  
MIN SPEED: 0.1 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: N  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: N  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: 3000 FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X10  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: N  
UTILITY BOATS:  
    1. 14 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 20000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 16200 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: DREDGE  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: STD  
        SLIP-RINGS: Y  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 15000 FEET  
        WIRE DIAMETER: 0.250 INCHES

03. MAJOR TYPE/USE:	STD
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	15000 FEET
WIRE DIAMETER:	0.322 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	-
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	-
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON/EDO

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FUEL DETAILS

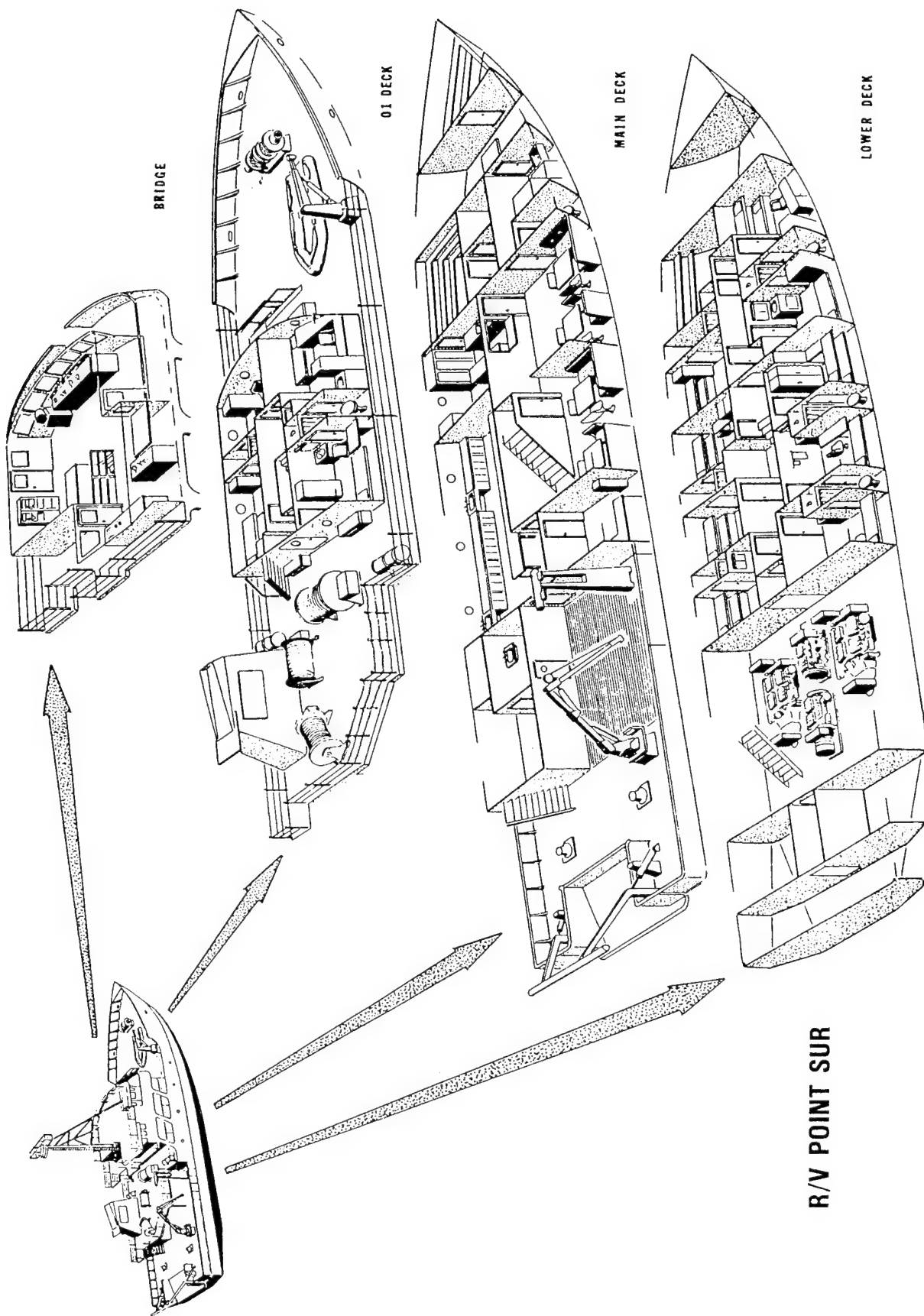
FUEL CAPACITY:	29400 GALLONS
FUEL TYPE:	MG-O
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1000 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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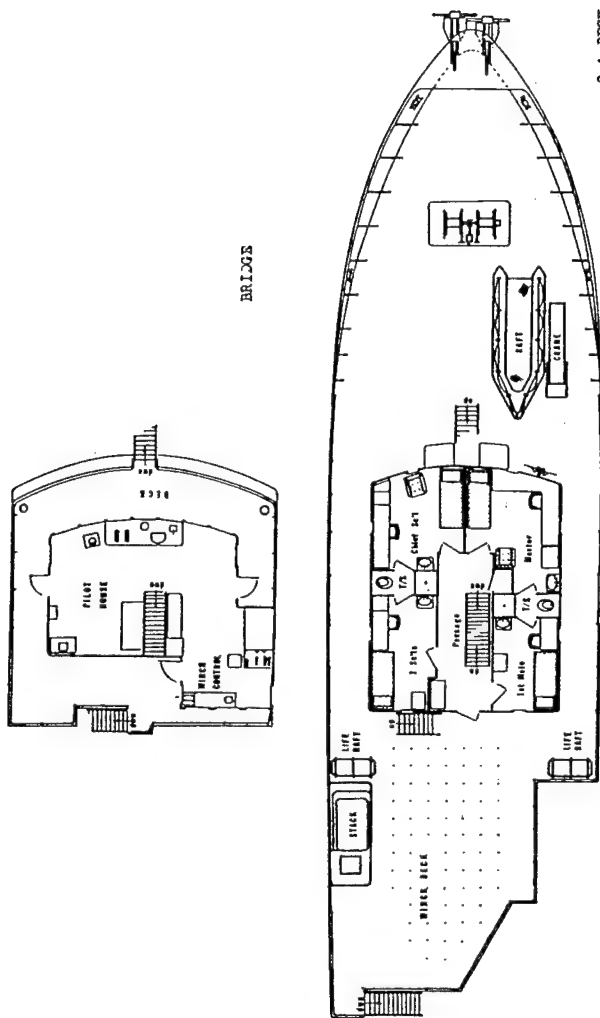
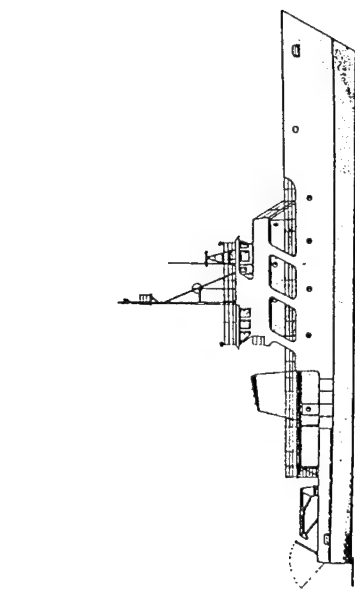


R/V POINT SUR



**R/V POINT SUR**

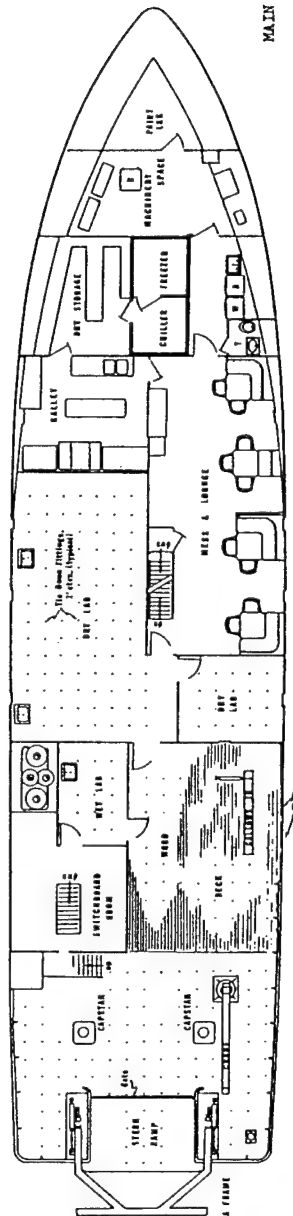




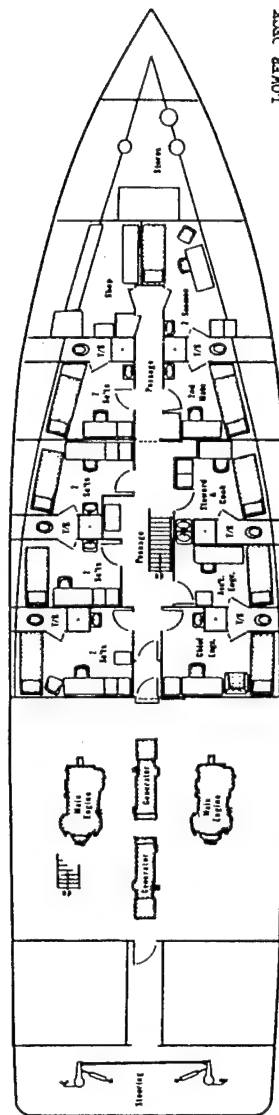
O 1 DECK

GENERAL DATA:

LENGTH OVERALL 135 feet  
 LENGTH BETWEEN PERPENDICULARS 124 feet  
 BEAM 32 feet  
 DRAUGHT (FULL LOAD) 9 feet  
 GROSS TONNAGE 294 tons  
 DISPLACEMENT (FULL LOAD) 539 light tons  
 MAXIMUM SUSTAINED SPEED 11.5 knots  
 MANEUVERING SPEED 0-10 knots  
 CRUISING RANGE (NORMAL) 5,600 n. miles  
 ENDURANCE (NORMAL) 21 days  
 WRY LAB 480 sq. ft.  
 WET LAB 100 sq. ft.  
 LABORATORY AREA 1100 sq. ft.  
 MAIN DECK AREA 1100 sq. ft.  
 CREW Nine  
 SCIENTIFIC BERTHING Twelve  
 OWNER National Science Foundation  
 OPERATOR Moss Landing Marine Laboratories  
 for GENAL  
 BUILT 1980  
 HOME PORT Moss Landing, California



MAIN DECK



LOWER DECK

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WECOMA

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT K. M. PALFREY  
POC OFFICE: MARINE SUPERINTENDENT/SHIP OPS  
POC ORGANIZATION: OREGON STATE U., COLLEGE OF OCEANOGRAPHY  
POC ADDRESS: HATFIELD MARINE SCIENCE CENTER  
POC CITY/STATE: NEWPORT OR 97365  
COMMERCIAL AREA CODE: 503  
PHONE: 867-0295

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: OCEANUS  
CALL SIGN (INTERNATIONAL): WSD7079  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: NEWPORT OR  
TECHNICAL SPONSOR: OREGON STATE UNIVERSITY  
OPERATIONS CONTROL: OREGON STATE UNIVERSITY  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 9.0/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 20  
NUMBER OFFICERS: 6  
NUMBER IN CREW: 7  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL  
BUILDER: PETERSON BUILDERS  
WHERE BUILT: USA  
INITIAL COST: 3.1/75 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '75  
DELIVERY DATE: '75  
COMMISSION DATE: 15 MAY 76  
CONVERSION DATE: '00  
LAST OVERHAUL: '90  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2001  
UPDATE OF INFORMATION: 24 OCT 90

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SHIP DIMENSIONS

LENGTH: 177.0 FEET  
MAX BEAM: 33.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 289  
DISPLACEMENT: 1059 TONS  
DRAUGHT: 18.5 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 8640 NAUTICAL MILES  
MAX SPEED: 14.5 KNOTS  
MIN SPEED: 1.0 KNOTS  
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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: TRAINABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: BILGE KEEL  
STABILIZER: N  
DEEP ANCHOR: NONE  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X20 (2)  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
1. 13 FOOT SKIFF 2. 14 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
MAX HOIST CAPACITY: 7000 POUNDS  
NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
MAX HOIST CAPACITY: 30000 POUNDS  
NUMBER OF CRANES: 2  
WINCHES:  
01. MAJOR TYPE/USE: CORING  
SECONDARY TYPE/USE: TRAWL  
SLIP-RINGS: N  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 30000 FEET  
WIRE DIAMETER: 0.500 INCHES  
02. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE: HYDROGRAPHIC  
SLIP-RINGS: 4  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 20000 FEET  
WIRE DIAMETER: 0.375 INCHES  
SECONDARY WIRE TYPE: CONDUCTOR CABLE  
SECONDARY WIRE LEN: 25000 FEET  
SECONDARY WIRE DIAM: 0.225 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	4
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.188 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.225 INCHES
04. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	OTHER
SLIP-RINGS:	4
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.320 INCHES
05. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	4
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	24000 FEET
WIRE DIAMETER:	0.250 INCHES

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#### ELECTRONIC EQUIPMENT

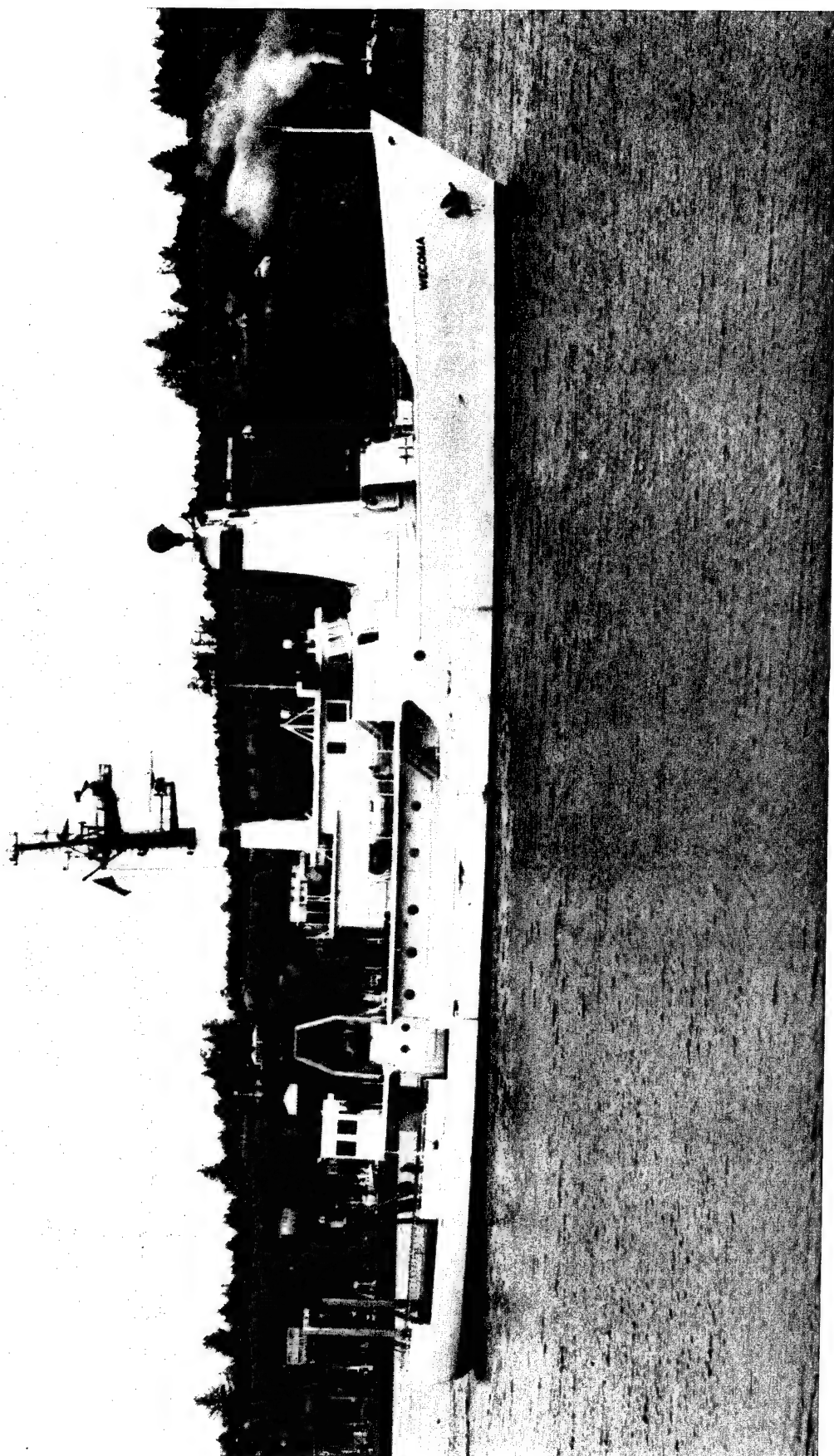
COMPUTERS:	LEADING EDGE MODEL D; TOSHIBA T3200
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	JRC
SOUNDING SYSTEM (DEEP):	EDO/RAYTHEON

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#### FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2/JP-5
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2000 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1800 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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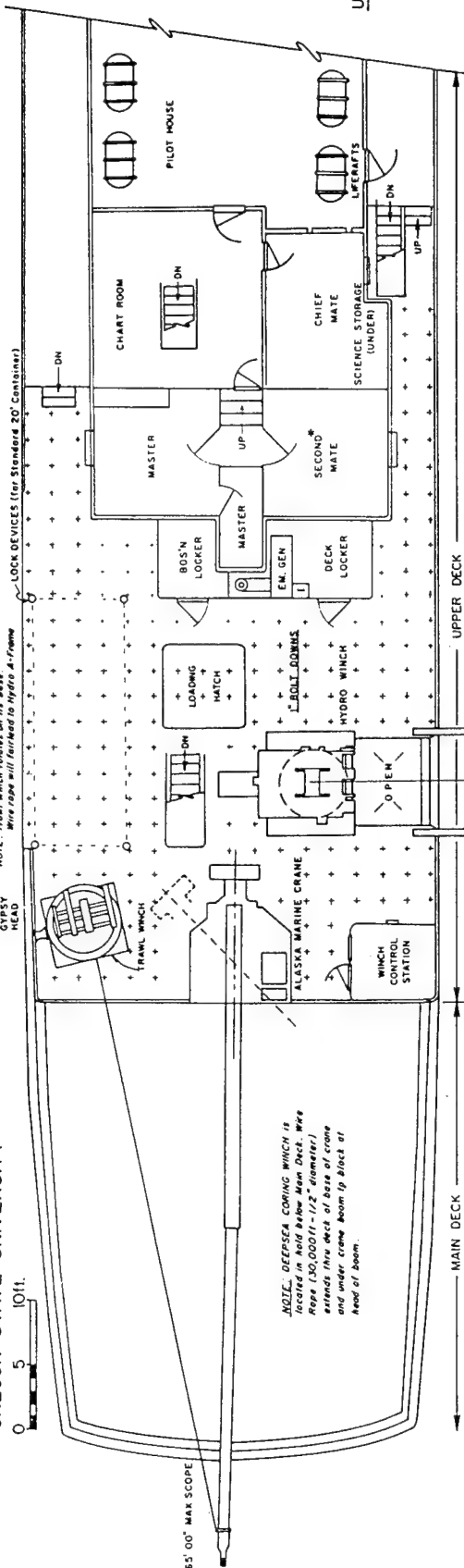


# R/V WECOMA OREGON STATE UNIVERSITY

REV-DEC. 1989

0 5 10 ft.

NOTE: Travel Winch rotates on its base. Wire rope will be leaded to Hydro A-Frame.



NOTE: DEEPSEA CORING WHICH IS 100' IN DIA. & 100' IN LENGTH. REELS 150,000 LBS. (1/2\"/>

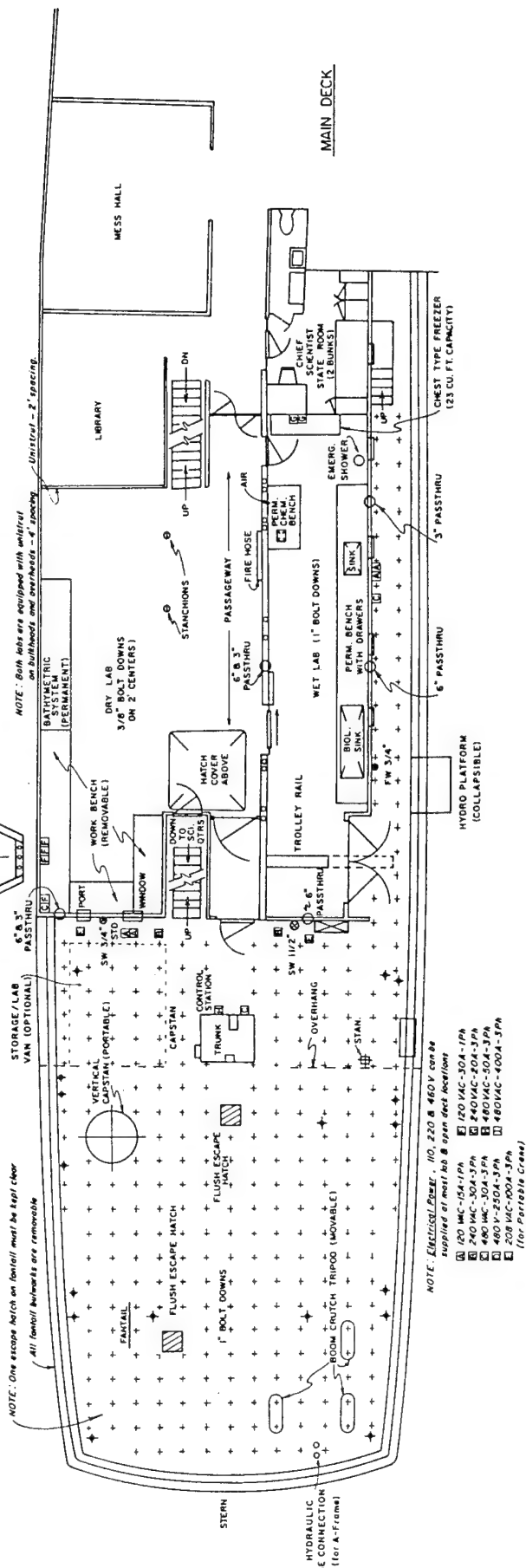
UPPER DECK

MAIN DECK

AFT → FORWARD

NOTE: One escape hatch on fantail must be kept clear. All fantail bulkheads are removable.

NOTE: Both labs are equipped with unitrol on bulkheads and overhead - 6\"/>



NOTE: ELECTRICAL POWER: 110, 220 & 460 V can be supplied at most lab & open deck locations.

- 120 VAC-15A-1Ph
- 240 VAC-30A-1Ph
- 240 VAC-30A-3Ph
- 480 VAC-30A-3Ph
- 480 VAC-50A-3Ph
- 208 VAC-20A-3Ph
- 208 VAC-50A-3Ph
- 208 VAC-100A-3Ph

(for Portable Crane)

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ENDEAVOR

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR JOHN F BASH  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: GRADUATE SCHOOL OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF RHODE ISLAND  
POC CITY/STATE: NARRAGANSETT RI 02882  
COMMERCIAL AREA CODE: 401  
PHONE: 792-6203

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: OCEANUS  
CALL SIGN (INTERNATIONAL): WVFQ  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: NARRAGANSETT RI  
TECHNICAL SPONSOR: UNIVERSITY OF RHODE ISLAND  
OPERATIONS CONTROL: UNIVERSITY OF RHODE ISLAND  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 8.8/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 16  
NUMBER OFFICERS: 6  
NUMBER IN CREW: 6  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FUEL  
BUILDER: PETERSON BUILDERS INC  
WHERE BUILT: STURGEON BAY WI USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: 23 JAN 75  
LAUNCH DATE: 06 SEP 75  
DELIVERY DATE: 28 OCT 76  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 00 DEC 88  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2001  
UPDATE OF INFORMATION: 27 NOV 90

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SHIP DIMENSIONS

LENGTH: 177.0 FEET  
MAX BEAM: 33.0 FEET  
HEIGHT: 88.2 FEET  
GROSS TONNAGE: 290  
DISPLACEMENT: 972 TONS  
DRAUGHT: 17.6 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 7000 NAUTICAL MILES  
MAX SPEED: 15.4 KNOTS  
MIN SPEED: 0.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: BOW THRUSTER  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: TRAINABLE WATER JET  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 16 FOOT RUBBER INFLATABLE  
    2. 17.5 FOOT RUBBER INFLATABLE RIGID HULL  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 26000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 30000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: CTD  
        SECONDARY TYPE/USE: HYDROGRAPHIC  
        SLIP-RINGS: 4  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.322 INCHES  
        SECONDARY WIRE TYPE: CONDUCTOR CABLE  
        SECONDARY WIRE LEN: 30000 FEET  
        SECONDARY WIRE DIAM: 0.250 INCHES



02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	4
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.250 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	30000 FEET
SECONDARY WIRE DIAM:	0.322 INCHES
03. MAJOR TYPE/USE:	DEEP SEA SAMPLING
SECONDARY TYPE/USE:	TRAWL
SLIP-RINGS:	4
WIRE TYPE:	KEVLAR CABLE
WIRE LENGTH:	26247 FEET
WIRE DIAMETER:	0.625 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	32800 FEET
SECONDARY WIRE DIAM:	0.5625 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	DEC MICROVAX II
FACSIMILE:	ALDEN MARINEFAX VI; WEST NAVFAX
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	SPERRY 2500C-27 RASCAR & MARK 127E
LORAN A:	N
LORAN C:	NORTHSTAR 800 & 7000
OMEGA:	MAGNAVOX 1105
SATELLITE NAVIGATION:	MAGNAVOX 1105; TRIMBLE 4000A
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	HARRIS RF-3200
VHF COMMUNICATIONS:	ICOM M100 & REGENCY POLARIS NC-7200
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS DS-600C
SOUNDING SYSTEM (DEEP):	RAYTHEON
TELEX COMMUNICATIONS:	TELESYSTEMS MDC 9100 INMARSAT

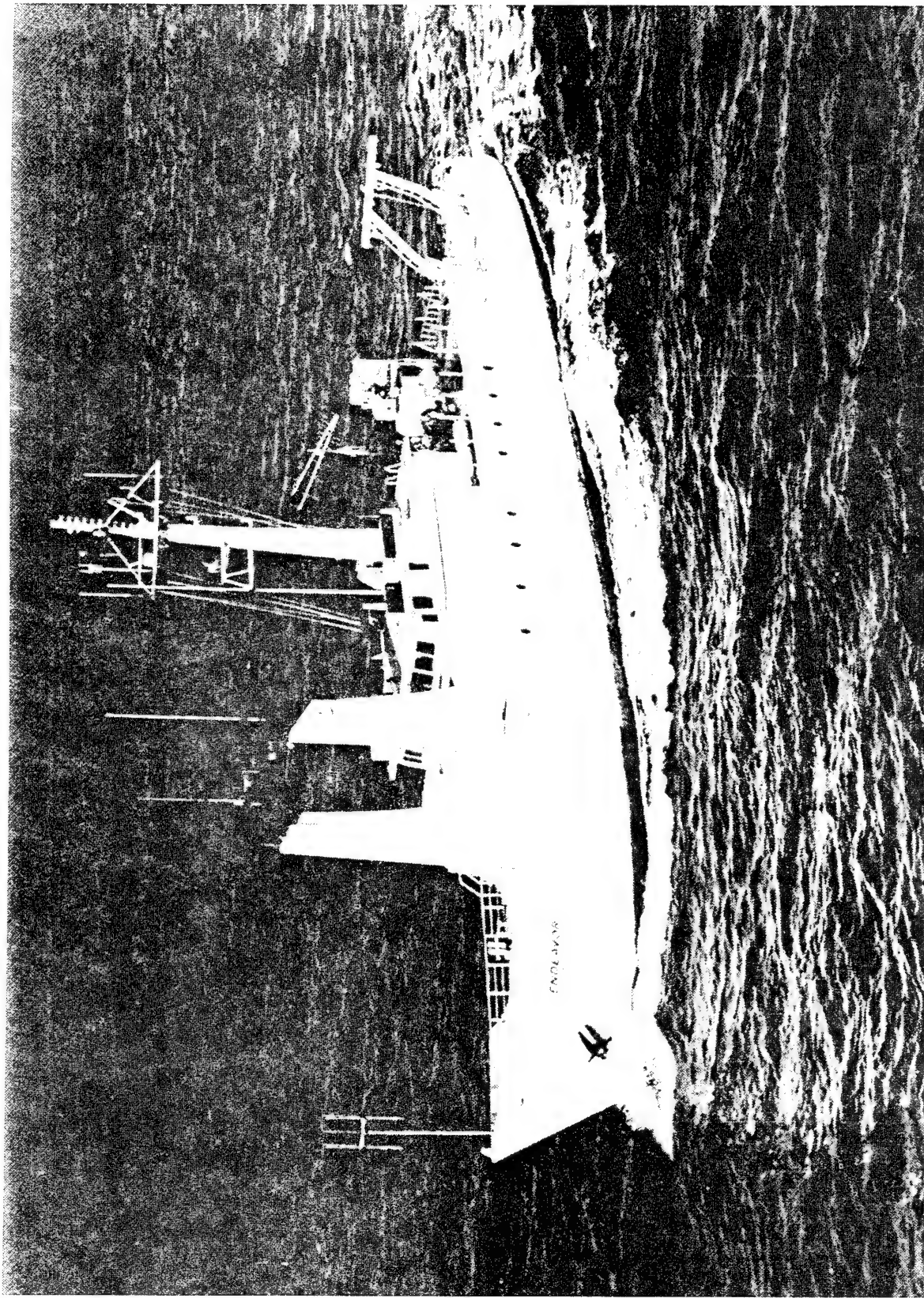
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FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2100 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1200 GAL/24-HRS
DURING INPORT OPERATIONS:	600 GAL/24-HRS

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R/V ENDEAVOR

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MELVILLE

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS  
POC OFFICE: SHIP SCHEDULER/MARINE SUPERINTENDENT  
POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO  
POC CITY/STATE: LA JOLLA CA 92093-0210  
COMMERCIAL AREA CODE: 619  
PHONE: 534-2841/534-1643

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ADMINISTRATIVE DETAILS

DESIGNATOR: AGOR 14  
CLASS: MELVILLE/AGOR 14  
CALL SIGN (INTERNATIONAL): WECB  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: US COAST GUARD-ABS  
FLAG REGISTRY: USA  
HOME PORT: SAN DIEGO CA  
TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO  
OPERATIONS CONTROL: UNIVERSITY OF CALIFORNIA SAN DIEGO  
CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE 27 JUL 96  
CON # - N00014-91-L-0049  
OPERATING COST/DAY: 14.4/92 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 35  
NUMBER OFFICERS: 9  
NUMBER IN CREW: 14  
MAX SEA STATE: 8 BEAUFORT SCALE  
ENDURANCE: 40 DAY(S) @ 12 KTS  
LIMITING FACTOR: STORES  
BUILDER: DEFOE SHIPBUILDING COMPANY  
WHERE BUILT: BAY CITY MI USA  
INITIAL COST: 6.0/69 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 12 JUL 67  
LAUNCH DATE: 10 JUL 68  
DELIVERY DATE: 01 SEP 69  
COMMISSION DATE: 27 AUG 69  
CONVERSION DATE: 00 FEB 92  
LAST OVERHAUL: 00 FEB 92  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2007  
UPDATE OF INFORMATION: 01 DEC 91

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SHIP DIMENSIONS

LENGTH: 279.0 FEET  
MAX BEAM: 46.0 FEET  
HEIGHT: 112.0 FEET  
GROSS TONNAGE: 2200  
DISPLACEMENT: 2685 TONS  
DRAUGHT: 15.5 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 12000 NAUTICAL MILES  
MAX SPEED: 14.0 KNOTS  
MIN SPEED: 0.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC  
AUXILIARY PROPULSION: BOW THRUSTER  
NUMBER OF SHAFTS: 2 Z-DRIVES  
BOW THRUSTER: RETRACTABLE Z-DRIVE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: Y  
ANTI-ROLL: Y  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:  
    1. 14 FOOT RUBBER INFLATABLE  
    2. 14 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 14000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 25000 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: DEEP SEA  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 45000 FEET  
        WIRE DIAMETER: 0.563 INCHES  
        SECONDARY WIRE TYPE: CONDUCTOR CABLE  
        SECONDARY WIRE LEN: 32000 FEET  
        SECONDARY WIRE DIAM: 0.680 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	25000 FEET
WIRE DIAMETER:	0.250 INCHES
03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.322 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	VAX - 730 (2)
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO, GIFFT

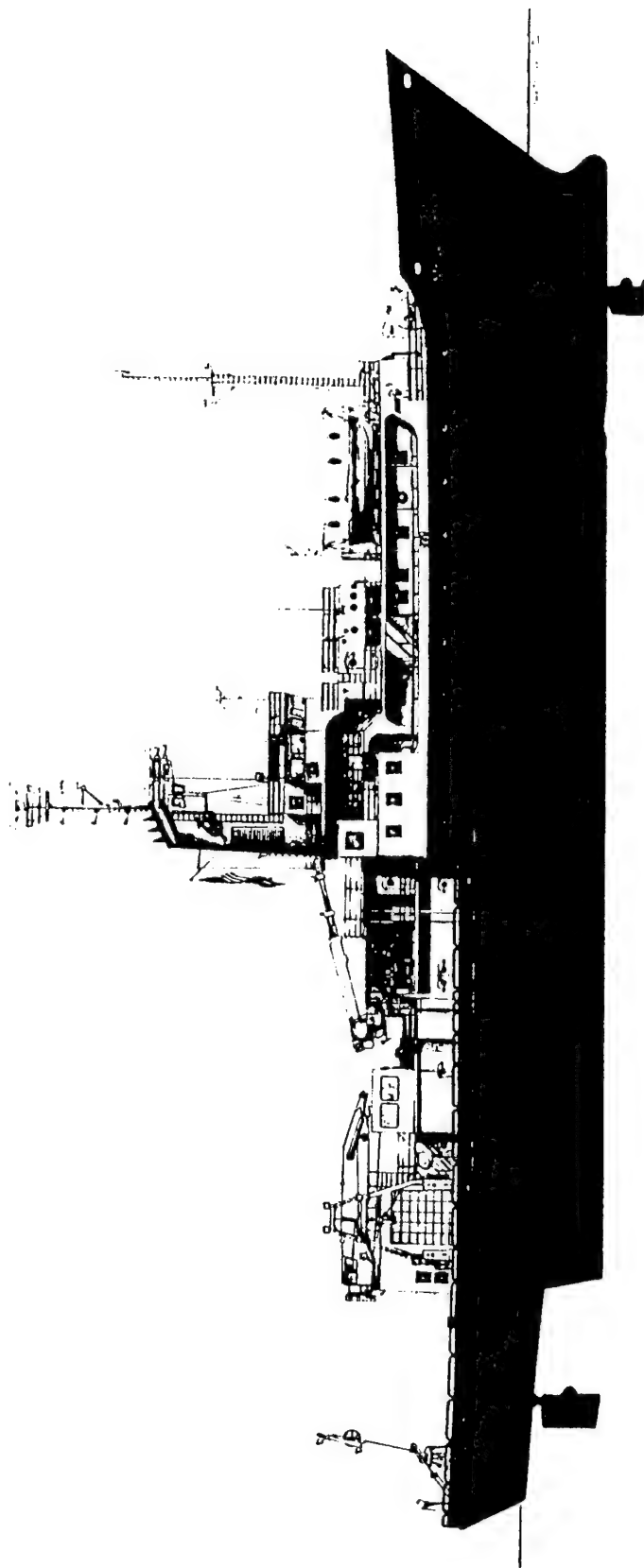
ALSO: INMARSAT

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#### FUEL DETAILS

FUEL CAPACITY:	141000 GALLONS
FUEL TYPE:	DIESEL #1/DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	3400 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2000 GAL/24-HRS
DURING INPORT OPERATIONS:	350 GAL/24-HRS

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*R/V MELVILLE*

Scripps Institution of Oceanography

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NEW HORIZON

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MRS. ROSE M. DUFOUR  
POC OFFICE: SCHEDULER  
POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO  
POC CITY/STATE: LA JOLLA CA 92093-0210  
COMMERCIAL AREA CODE: 619  
PHONE: 534-2841

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: COLUMBUS ISELIN  
CALL SIGN (INTERNATIONAL): WKWB  
FLEET: UNOLS  
SHIP TYPE: OCEANOGRAPHIC RESEARCH-GENERAL  
SHIP OWNER: UNIVERSITY OF CALIFORNIA  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: SAN DIEGO CA  
TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO  
OPERATIONS CONTROL: UNIVERSITY OF CALIFORNIA SAN DIEGO  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 9.2/92 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 17  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 7  
MAX SEA STATE: 7 BEAUFORT SCALE  
ENDURANCE: 29 DAY(S)  
LIMITING FACTOR: FUEL/USCG STABILITY REQUIREMENT  
BUILDER: ATLANTIC MARINE INC  
WHERE BUILT: FORT GEORGE ISLAND FL US  
INITIAL COST: 4.2/78 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 07 OCT 77  
LAUNCH DATE: 04 MAR 78  
DELIVERY DATE: 24 OCT 78  
COMMISSION DATE: 25 JAN 79  
CONVERSION DATE: '00  
LAST OVERHAUL: 00 JAN 91  
MAINTENANCE CYCLE: 3.0 YEARS  
END OF LIFE: 2005  
UPDATE OF INFORMATION: 01 DEC 91

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SHIP DIMENSIONS

LENGTH: 170.0 FEET  
MAX BEAM: 36.0 FEET  
HEIGHT: 72.0 FEET  
GROSS TONNAGE: 295  
DISPLACEMENT: 1080 TONS  
DRAUGHT: 12.8 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 7500 NAUTICAL MILES  
MAX SPEED: 12.3 KNOTS  
MIN SPEED: 0.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: BOW THRUSTER  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: SCHOTTEL TRAINABLE PROP  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X14  
INSTRUMENT VAN DIMENSIONS: 8X8X14  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: YES  
UTILITY BOATS:  
    1. 13 FOOT RUBBER INFLATABLE  
    2. 14 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 10000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 8000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: DREDGE  
        SLIP-RINGS: 1  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30170 FEET  
        WIRE DIAMETER: 0.680 INCHES



02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	25150 FEET
WIRE DIAMETER:	0.250 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.225 INCHES
03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	32810 FEET
WIRE DIAMETER:	0.322 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	PC WITH SAILLOOP
FACSIMILE:	Y
DOPPLER LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	TRANSIT & GPS
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO

ALSO: INMARSAT, ADCP, VHF DIRECTION FINDER, CELLULAR TELEPHONE

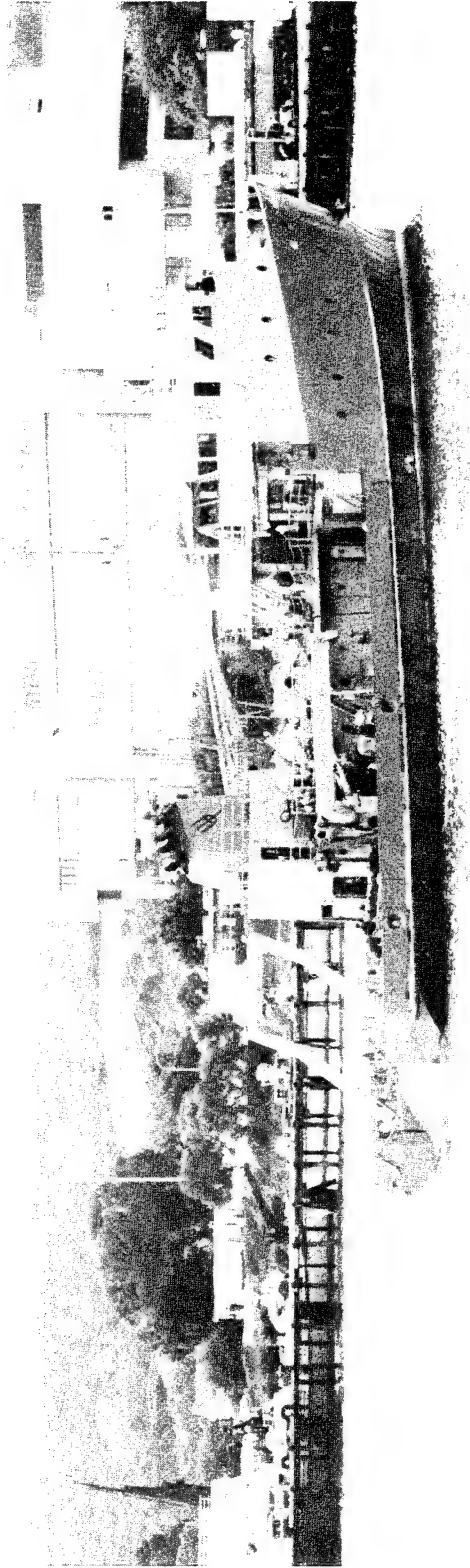
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FUEL DETAILS

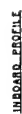
FUEL CAPACITY:	50000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1000 GAL/24-HRS
DURING AVERAGE OPERATIONS:	850 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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**R/V NEW HORIZON**



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THOMAS WASHINGTON

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS
POC OFFICE:	SHIP SCHEDULER/MARINE SUPERINTENDENT
POC ORGANIZATION:	SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF CALIFORNIA SAN DIEGO
POC CITY/STATE:	LA JOLLA CA 92093-0210
COMMERCIAL AREA CODE:	619
PHONE:	534-2841/534-1643

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ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 10
CLASS:	ROBERT D CONRAD/AGOR 3
CALL SIGN (INTERNATIONAL):	KGWU
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	US COAST GUARD-ABS
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	UNIVERSITY OF CALIFORNIA SAN DIEGO
CONTRACTUAL INFORMATION:	ONR CODE 611 LEASE TO EXPIRE OCT 93 CON # - N00014-85-L-0737
OPERATING COST/DAY:	11.0/92 THOUSAND \$'S IN YR
SCIENTIFIC COMPLEMENT:	22
NUMBER OFFICERS:	8
NUMBER IN CREW:	15
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	36 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	MARINETTE MARINE CORPORATION
WHERE BUILT:	MARINETTE WI USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	12 SEP 63
LAUNCH DATE:	01 AUG 64
DELIVERY DATE:	17 SEP 65
COMMISSION DATE:	'65
CONVERSION DATE:	'00
LAST OVERHAUL:	24 OCT 90
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1992
UPDATE OF INFORMATION:	01 DEC 91

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SHIP DIMENSIONS

LENGTH: 209.0 FEET  
MAX BEAM: 39.5 FEET  
HEIGHT: 78.0 FEET  
GROSS TONNAGE: 1151  
DISPLACEMENT: 1490 TONS  
DRAUGHT: 16.7 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 8200 NAUTICAL MILES  
MAX SPEED: 11.5 KNOTS  
MIN SPEED: 0.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC  
AUXILIARY PROPULSION: DIESEL  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: RETRACTABLE/360 DEG TRAINABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: Y  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: YES  
UTILITY BOATS:  
    1. 14 FOOT BOSTON WHALER  
    2. 35 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 10000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 16000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: DEEP SEA  
        SECONDARY TYPE/USE: OCEANOGRAPHIC  
        SLIP-RINGS: 1  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 45000 FEET  
        WIRE DIAMETER: 0.563 INCHES  
        SECONDARY WIRE TYPE: CONDUCTOR CABLE  
        SECONDARY WIRE LEN: 32800 FEET  
        SECONDARY WIRE DIAM: 0.680 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	25000 FEET
WIRE DIAMETER:	0.250 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.225 INCHES
03. MAJOR TYPE/USE:	STD
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.322 INCHES

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ELECTRONIC EQUIPMENT

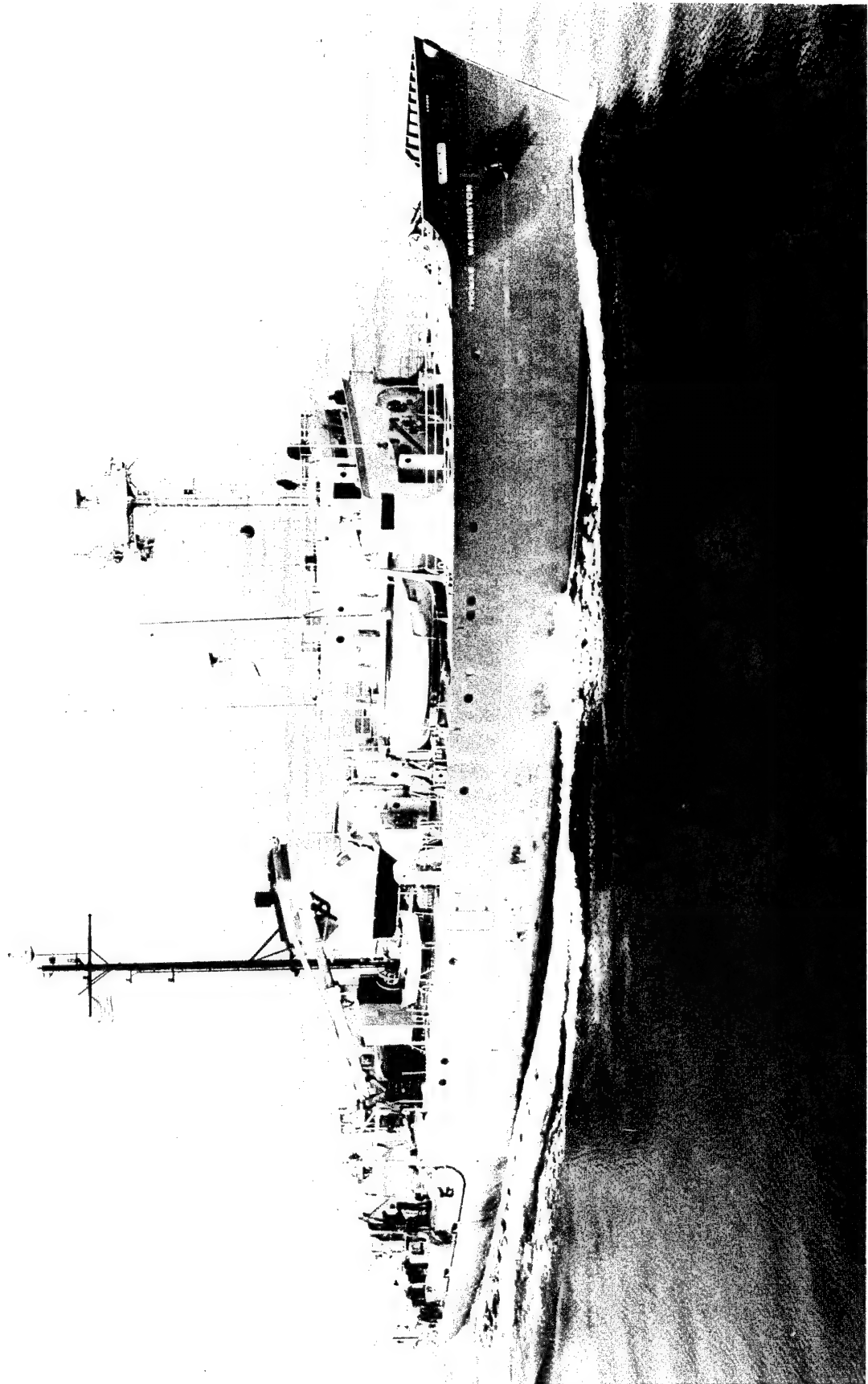
COMPUTERS:	VAX730(2);MASSCOMP
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	Y
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	SEABEAM,EDO

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FUEL DETAILS

FUEL CAPACITY:	66000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2000 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1700 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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R/V THOMAS WASHINGTON

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FLIP

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: DR. FREDERICK FISHER  
POC OFFICE: ASSOCIATE DIRECTOR  
POC ORGANIZATION: MARINE PHYSICAL LABORATORY  
POC ADDRESS: SCRIPPS INSTITUTE OF OCEANOGRAPHY  
POC CITY/STATE: LA JOLLA CA 92093-0701  
COMMERCIAL AREA CODE: 619  
PHONE: 534-1796

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ADMINISTRATIVE DETAILS

DESIGNATOR: RP  
CLASS: RESEARCH PLATFORM  
CALL SIGN (INTERNATIONAL): WI7115  
FLEET: UNOLS  
SHIP TYPE: FLOATING INSTRUMENT PLATFORM  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: USN  
FLAG REGISTRY: USA  
HOME PORT: SAN DIEGO CA  
TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO  
OPERATIONS CONTROL: SCRIPPS MARINE PHYSICAL LABORATORY  
CONTRACTUAL INFORMATION: ONR CODE 122  
OPERATING COST/DAY: 1.5/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 11  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 4  
MAX SEA STATE: 7 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FOOD/FUEL  
BUILDER: GUNDERSON BROTHERS SHIPYARD  
WHERE BUILT: PORTLAND OR USA  
INITIAL COST: .850/62 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: 22 JUN 62  
DELIVERY DATE: 06 AUG 62  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 00 AUG 90  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: 2002  
UPDATE OF INFORMATION: 01 NOV 90



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SHIP DIMENSIONS

LENGTH: 358.0 FEET  
MAX BEAM: 26.0 FEET  
HEIGHT: 37.0 FEET  
GROSS TONNAGE: -  
DISPLACEMENT: 700 TONS  
DRAUGHT: 12.5 FEET  
CRUISE SPEED: - KNOTS  
RANGE: - NAUTICAL MILES  
MAX SPEED: - KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: TOWED, 5-10 KTS  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 0  
BOW THRUSTER: HYD. 60HP  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: N  
DRY-LAB: N  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:  
    1. 13 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF FRAMES: -  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF BOOMS: 6  
WINCHES:  
    01. MAJOR TYPE/USE: DEEP SEA  
        SECONDARY TYPE/USE:  
        SLIP-RINGS:  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 20000 FEET  
        WIRE DIAMETER: 0.348 INCHES

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ELECTRONIC EQUIPMENT

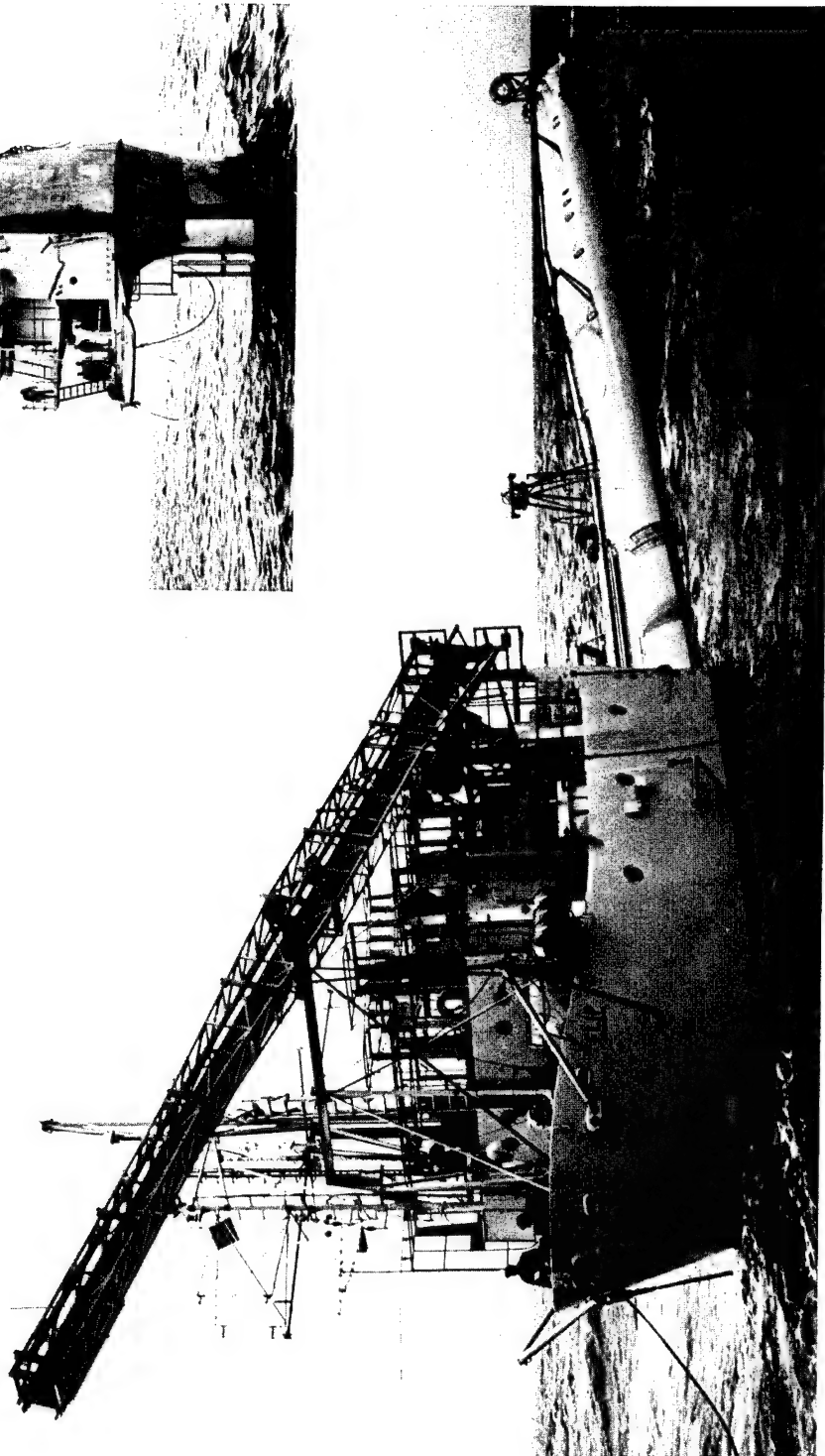
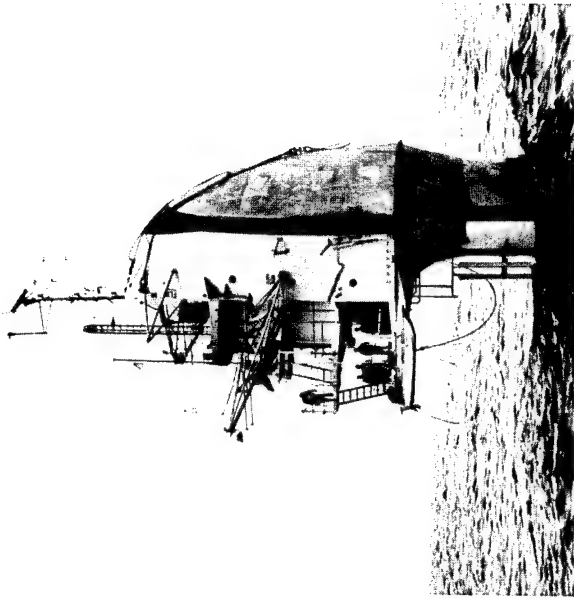
COMPUTERS:	COMPAQ PC
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	NONE
SOUNDING SYSTEM (DEEP):	UQN-1D

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FUEL DETAILS

FUEL CAPACITY:	3500 GALLONS
FUEL TYPE:	DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	- GAL/24-HRS
DURING AVERAGE OPERATIONS:	75 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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ORB

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: DR. FREDERICK FISHER  
POC OFFICE: ASSOCIATE DIRECTOR  
POC ORGANIZATION: MARINE PHYSICAL LABORATORY  
POC ADDRESS: SCRIPPS INSTITUTE OF OCEANOGRAPHY  
POC CITY/STATE: LA JOLLA CA 92093-0701  
COMMERCIAL AREA CODE: 619  
PHONE: 534-1796

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ADMINISTRATIVE DETAILS

DESIGNATOR: RP  
CLASS: RESEARCH PLATFORM  
CALL SIGN (INTERNATIONAL): WS6315  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH BUOY  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: USN  
FLAG REGISTRY: USA  
HOME PORT: SAN DIEGO CA  
TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO  
OPERATIONS CONTROL: SCRIPPS MARINE PHYSICAL LABORATORY  
CONTRACTUAL INFORMATION: ONR CODE 122  
OPERATING COST/DAY: 1.5/89 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 15  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 4  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 30 DAY(S)  
LIMITING FACTOR: FOOD  
BUILDER: CALIFORNIA STEEL FABRICATORS  
WHERE BUILT: SAN DIEGO CA USA  
INITIAL COST: .250/67 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: 00 JUL 67  
LAUNCH DATE: 01 DEC 67  
DELIVERY DATE: 00 DEC 67  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 00 JUN 86  
MAINTENANCE CYCLE: 4.0 YEARS  
END OF LIFE: 2018  
UPDATE OF INFORMATION: 01 NOV 90

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SHIP DIMENSIONS

LENGTH: 69.0 FEET  
MAX BEAM: 45.0 FEET  
HEIGHT: 28.5 FEET  
GROSS TONNAGE: -  
DISPLACEMENT: 330 TONS  
DRAUGHT: 5.0 FEET  
CRUISE SPEED: - KNOTS  
RANGE: - NAUTICAL MILES  
MAX SPEED: - KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: TOWED, 3-6 KTS  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 0  
BOW THRUSTER: NONE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: N  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:  
    1. 17 FOOT BOSTON WHALER.  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF FRAMES: -  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF CRANES: 5  
WINCHES: N

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ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	NONE
SOUNDING SYSTEM (DEEP):	UQN-1D

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FUEL DETAILS

FUEL CAPACITY:	5500 GALLONS
FUEL TYPE:	DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	- GAL/24-HRS
DURING AVERAGE OPERATIONS:	100 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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R/P ORB

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ROBERT GORDON SPROUL

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MRS. ROSE M. DUFOUR  
POC OFFICE: SCHEDULER  
POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO  
POC CITY/STATE: LA JOLLA CA 92093-0210  
COMMERCIAL AREA CODE: 619  
PHONE: 534-2841

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: GULF COAST WORK BOAT  
CALL SIGN (INTERNATIONAL): WSQ2674  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - GENERAL  
SHIP OWNER: UNIVERSITY OF CALIFORNIA  
CERTIFICATION AUTHORITY: ABS  
FLAG REGISTRY: USA  
HOME PORT: SAN DIEGO CA  
TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO  
OPERATIONS CONTROL: UNIVERSITY OF CALIFORNIA SAN DIEGO  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 4.6/92 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: 0  
NUMBER IN CREW: 5  
MAX SEA STATE: 7 BEAUFORT SCALE (OPS ON STATION)  
ENDURANCE: 14 DAY(S)  
LIMITING FACTOR: FRESH WATER  
BUILDER: STEINER FABRICATORS INC.  
WHERE BUILT: BAYOU LA BATRE AL  
INITIAL COST: 1.3/81 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '00  
DELIVERY DATE: '81  
COMMISSION DATE: '00  
CONVERSION DATE: 00 AUG 84  
LAST OVERHAUL: 14 JUN 90  
MAINTENANCE CYCLE: 3.0 YEARS  
END OF LIFE: 2001  
UPDATE OF INFORMATION: 01 DEC 91



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SHIP DIMENSIONS

LENGTH: 125.0 FEET  
MAX BEAM: 32.0 FEET  
HEIGHT: 53.0 FEET  
GROSS TONNAGE: 85  
DISPLACEMENT: 524 TONS  
DRAUGHT: 8.6 FEET  
CRUISE SPEED: 9.5 KNOTS  
RANGE: 3800 NAUTICAL MILES  
MAX SPEED: 10.0 KNOTS  
MIN SPEED: 2.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: WHITEGILL  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X14  
INSTRUMENT VAN DIMENSIONS: 10X8X30  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: BAROMETERS, WIND GUAGES, SLING  
UTILITY BOATS: PSYCHROMETER  
    1. 14 FOOT BOSTON WHALER  
    2. 12 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 6500 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 2500 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: UNKNOWN  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 14000 FEET  
        WIRE DIAMETER: 0.375 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UNKNOWN  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 14000 FEET  
        WIRE DIAMETER: 0.250 INCHES

03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	UNKNOWN
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	18000 FEET
WIRE DIAMETER:	0.322 INCHES
04. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	29400 FEET
WIRE DIAMETER:	0.225 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO - 50KHZ
SOUNDING SYSTEM (DEEP):	GDR - 12KHZ

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FUEL DETAILS

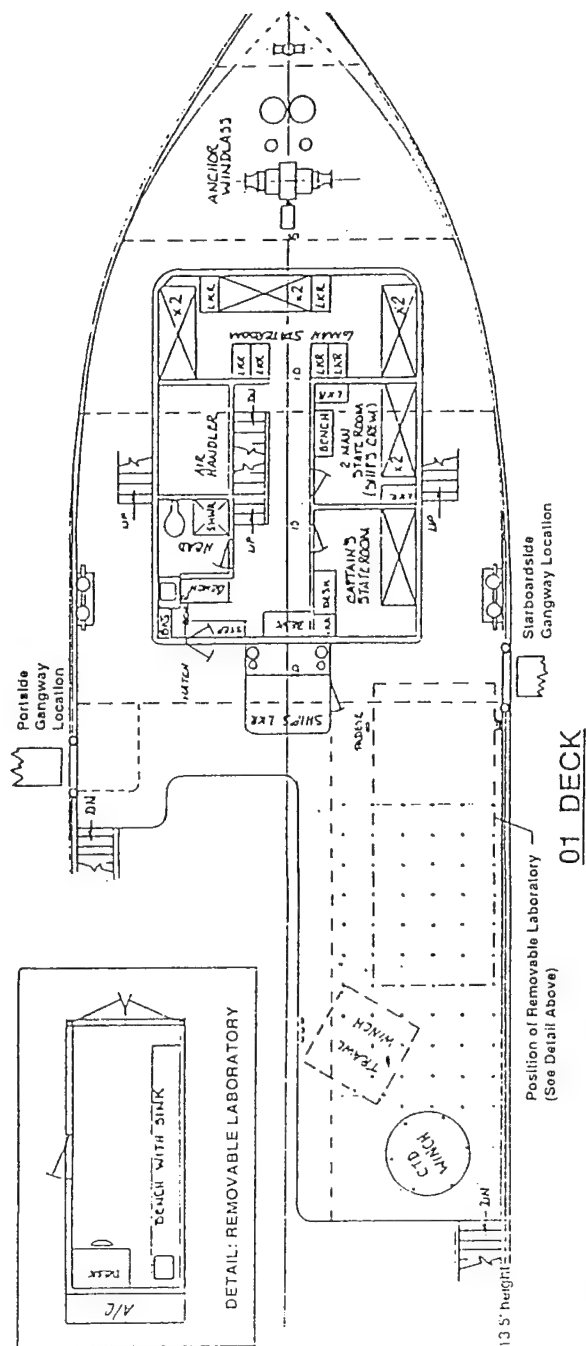
FUEL CAPACITY:	24800 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	740 GAL/24-HRS
DURING INPORT OPERATIONS:	50 GAL/24-HRS

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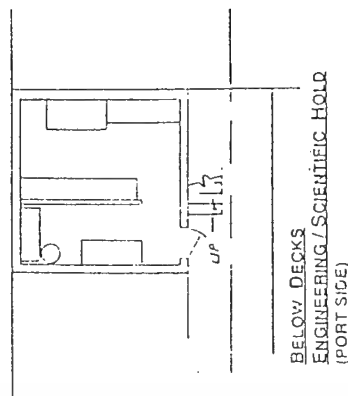
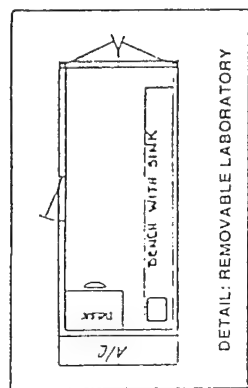


R/V ROBERT GORDON SPROUL



## 01 DECK

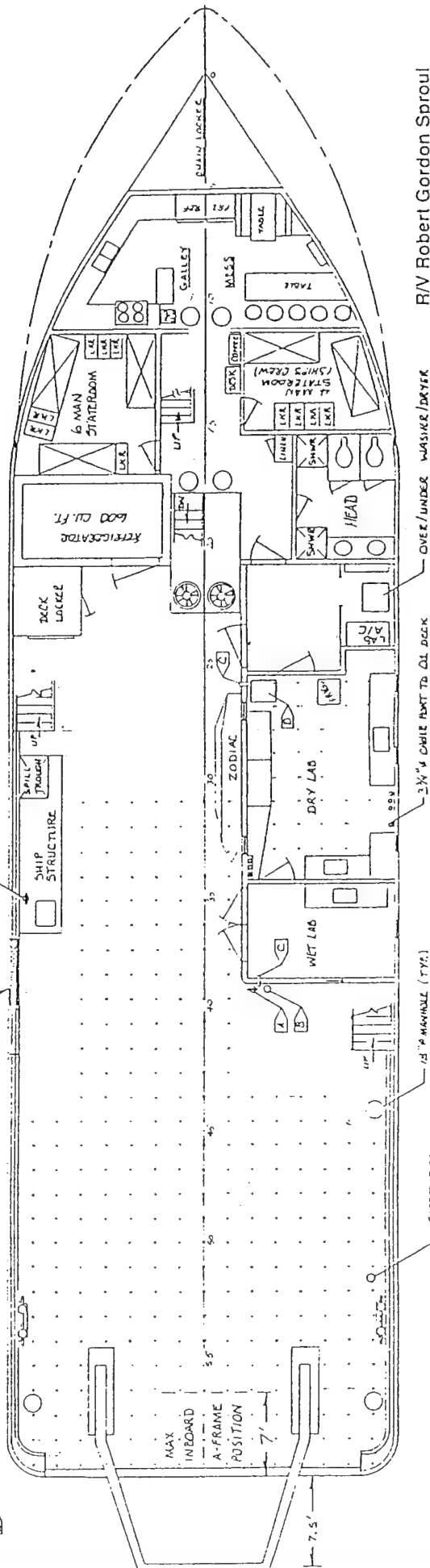
Position of Removable Laboratory  
(See Detail Above)



### GENERAL NOTES

- Deck Bolts, Main and 01, are 1 - 8 UNC on 2 ft centers
- Deck Bolts, Dry lab, are 1/2 - 20 UNC on 2 ft centers
- A-frame, SWL: 10,000lbs; max inboard: 7' @ 20' height; max outboard: 7.5' @ 13.5' height (elevations measured from main deck to shackle pin eye)

- LEGEND
- (A) compressed air, Tee-fitting, 1-1/2" NPT female, 2 locations
  - (B) Saltwater connection
  - (C) 3" stalling tube to Main Deck, 2 locations
  - (D) 15" Electronics Rack



## MAIN DECK

R/V Robert Gordon Sproul  
Deck Plan  
Scale: 1/8" = 1'  
1987 Revision A

Drawing for Reference Only -- visit ship when planning a scarp.

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BLUE FIN

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. LEE H. KNIGHT  
POC OFFICE: -  
POC ORGANIZATION: SKIDAWAY INSTITUTE OF OCEANOGRAPHY  
POC ADDRESS: PO BOX 13687  
POC CITY/STATE: SAVANNAH GA 31416-0687  
COMMERCIAL AREA CODE: 912  
PHONE: 598-2486

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: TRAWLER YACHT  
CALL SIGN (INTERNATIONAL):  
FLEET: UNOLS  
SHIP TYPE: -  
SHIP OWNER: UNIVERSITY SYSTEM OF GEORGIA  
CERTIFICATION AUTHORITY: US COAST GUARD  
FLAG REGISTRY: USA  
HOME PORT: SAVANNAH GA  
TECHNICAL SPONSOR: SKIDAWAY INSTITUTE OF OCEANOGRAPHY  
OPERATIONS CONTROL: SKIDAWAY INSTITUTE OF OCEANOGRAPHY  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 2.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 8  
NUMBER OFFICERS: 2  
NUMBER IN CREW: 2  
MAX SEA STATE: 4 BEAUFORT SCALE  
ENDURANCE: 7 DAY(S)  
LIMITING FACTOR: WATER-ACCOMMODATIONS  
BUILDER: XNIDIES  
WHERE BUILT: ST.AUGUSTINE FL USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '72  
DELIVERY DATE: '72  
COMMISSION DATE: '00  
CONVERSION DATE: '75  
LAST OVERHAUL: '81  
MAINTENANCE CYCLE: - YEARS  
END OF LIFE: 1996  
UPDATE OF INFORMATION: 26 NOV 91

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SHIP DIMENSIONS

LENGTH: 72.0 FEET  
MAX BEAM: 20.0 FEET  
HEIGHT: 60.0 FEET  
GROSS TONNAGE: 86  
DISPLACEMENT: 132 TONS  
DRAUGHT: 8.5 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 1800 NAUTICAL MILES  
MAX SPEED: 9.0 KNOTS  
MIN SPEED: 0.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL HYDRAUL.  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: NO  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: Y  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X10  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS: N  
A, U, OR L FRAMES  
MAX HOIST CAPACITY: 5000 POUNDS  
NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
MAX HOIST CAPACITY: 2500 POUNDS  
NUMBER OF CRANES: 1  
WINCHES:  
01. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE: HYDROGRAPHIC  
SLIP-RINGS: 4  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 2000 FEET  
WIRE DIAMETER: 0.219 INCHES  
02. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE: CORING  
SLIP-RINGS: N  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 6000 FEET  
WIRE DIAMETER: 0.500 INCHES

03. MAJOR TYPE/USE:	OCEANOGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	5000 FEET
WIRE DIAMETER:	0.250 INCHES
04. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	600 FEET
WIRE DIAMETER:	0.562 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	SIMRAD

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#### FUEL DETAILS

FUEL CAPACITY:	5500 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	840 GAL/24-HRS
DURING AVERAGE OPERATIONS:	600 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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JOHN V. VICKERS

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR DON NEWMAN  
POC OFFICE: MANAGER MARINE SUPPORT FACILITY  
POC ORGANIZATION: INSTITUTE FOR MARINE & COASTAL STUDIES, USC  
POC ADDRESS: 820 SOUTH SEASIDE AVENUE  
POC CITY/STATE: TERMINAL ISLAND CA 90731  
COMMERCIAL AREA CODE: 213  
PHONE: 830-4570

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: TUNA SEINER  
CALL SIGN (INTERNATIONAL): WP8613  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: UNIVERSITY OF SOUTHERN CALIFORNIA  
CERTIFICATION AUTHORITY: US COAST GUARD/ABS  
FLAG REGISTRY: USA  
HOME PORT: LOS ANGELES CA  
TECHNICAL SPONSOR: UNIVERSITY OF SOUTHERN CALIFORNIA  
OPERATIONS CONTROL: UNIVERSITY OF SOUTHERN CALIFORNIA  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 10.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 20  
NUMBER OFFICERS: 6  
NUMBER IN CREW: 14  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 75 DAY(S)  
LIMITING FACTOR: STORES  
BUILDER: CAMPBELL SHIP  
WHERE BUILT: SAN DIEGO CA USA  
INITIAL COST: 5.5/73 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '73  
DELIVERY DATE: '73  
COMMISSION DATE: '73  
CONVERSION DATE: '90  
LAST OVERHAUL: '90  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2020  
UPDATE OF INFORMATION: 01 DEC 91



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SHIP DIMENSIONS

LENGTH: 220.0 FEET  
MAX BEAM: 38.0 FEET  
HEIGHT: 70.0 FEET  
GROSS TONNAGE: 968  
DISPLACEMENT: 1750 TONS  
DRAUGHT: 14.8 FEET  
CRUISE SPEED: 13.0 KNOTS  
RANGE: 18000 NAUTICAL MILES  
MAX SPEED: 17.0 KNOTS  
MIN SPEED: 00.1 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: 550HP OMNITHRUSTER  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: Y  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: Y  
ANTI-ROLL: Y  
STABILIZER: N  
DEEP ANCHOR: 1500 FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 18 FOOT SURVEY LAUNCH  
    2. 14 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 30000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 36000 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 20000 FEET  
        WIRE DIAMETER: 0.187 INCHES  
    02. MAJOR TYPE/USE: CORING  
        SECONDARY TYPE/USE: TRAWL  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 20000 FEET  
        WIRE DIAMETER: 0.500 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	Y
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	YES
SOUNDING SYSTEM (DEEP):	YES

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FUEL DETAILS

FUEL CAPACITY:	121000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1500 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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R/V JOHN V. VICKERS

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GYRE

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. DEAN E. LETZRING  
POC OFFICE: MANAGER MARINE OPERATIONS  
POC ORGANIZATION: TEXAS A&M UNIVERSITY  
POC ADDRESS: P.O. BOX 1675  
POC CITY/STATE: GALVESTON, TX 77553  
COMMERCIAL AREA CODE: 409  
PHONE: 740-4469

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ADMINISTRATIVE DETAILS

DESIGNATOR: AGOR 21  
CLASS: AGOR 21 CLASS  
CALL SIGN (INTERNATIONAL): KJCL  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - GENERAL  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING  
FLAG REGISTRY: USA  
HOME PORT: GALVESTON TX  
TECHNICAL SPONSOR: TEXAS A&M RESEARCH FOUNDATION  
OPERATIONS CONTROL: TEXAS A&M UNIVERSITY  
CONTRACTUAL INFORMATION: AVAILABLE FOR REIMBURSABLE LEASE. CALL POC  
OPERATING COST/DAY: 6.5/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 23  
NUMBER OFFICERS: 5  
NUMBER IN CREW: 5  
MAX SEA STATE: 8 BEAUFORT SCALE  
ENDURANCE: 60 DAY(S)  
LIMITING FACTOR: FOOD  
BUILDER: HALTER MARINE SERVICES INC  
WHERE BUILT: NEW ORLEANS LA USA  
INITIAL COST: 3.1/73 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '73  
LAUNCH DATE: 25 MAY 73  
DELIVERY DATE: 14 NOV 73  
COMMISSION DATE: '00  
CONVERSION DATE: '80  
LAST OVERHAUL: 00 SEP 88  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2003  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 182.0 FEET  
MAX BEAM: 36.0 FEET  
HEIGHT: 42.0 FEET  
GROSS TONNAGE: 292  
DISPLACEMENT: 946 TONS  
DRAUGHT: 12.5 FEET  
CRUISE SPEED: 9.5 KNOTS  
RANGE: 8000 NAUTICAL MILES  
MAX SPEED: 11.8 KNOTS  
MIN SPEED: 0.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: ELECTRIC/HYDRAULIC  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: 10000 FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 13 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 30000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 7000 POUNDS  
    NUMBER OF CRANES: 2  
WINCHES:  
    01. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: CTD  
        SLIP-RINGS: Y  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 23000 FEET  
        WIRE DIAMETER: 0.322 INCHES  
    02. MAJOR TYPE/USE: CTD  
        SECONDARY TYPE/USE: HYDROGRAPHIC  
        SLIP-RINGS: Y  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.322 INCHES

03. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE:  
SLIP-RINGS: N  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 30000 FEET  
WIRE DIAMETER: 0.500 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS: HP 600A SAILLOOP  
FACSIMILE: Y  
ELECTROMAGNETIC LOG: Y  
INERTIAL NAVIGATION: N  
RADAR (SURFACE SCAN): Y  
LORAN A: Y  
LORAN C: Y  
OMEGA: Y  
SATELLITE NAVIGATION: Y  
RADIO TELETYPE COMMUNICATION: Y  
SINGLE SIDE BAND: Y  
VHF COMMUNICATIONS: Y  
STABLE TABLE: N  
NARROW BEAM: N  
SEISMIC PROFILING: Y  
SIDE SCAN: N  
SOUNDING SYSTEM (SHALLOW): RAYTHEON  
SOUNDING SYSTEM (DEEP): RAYTHEON

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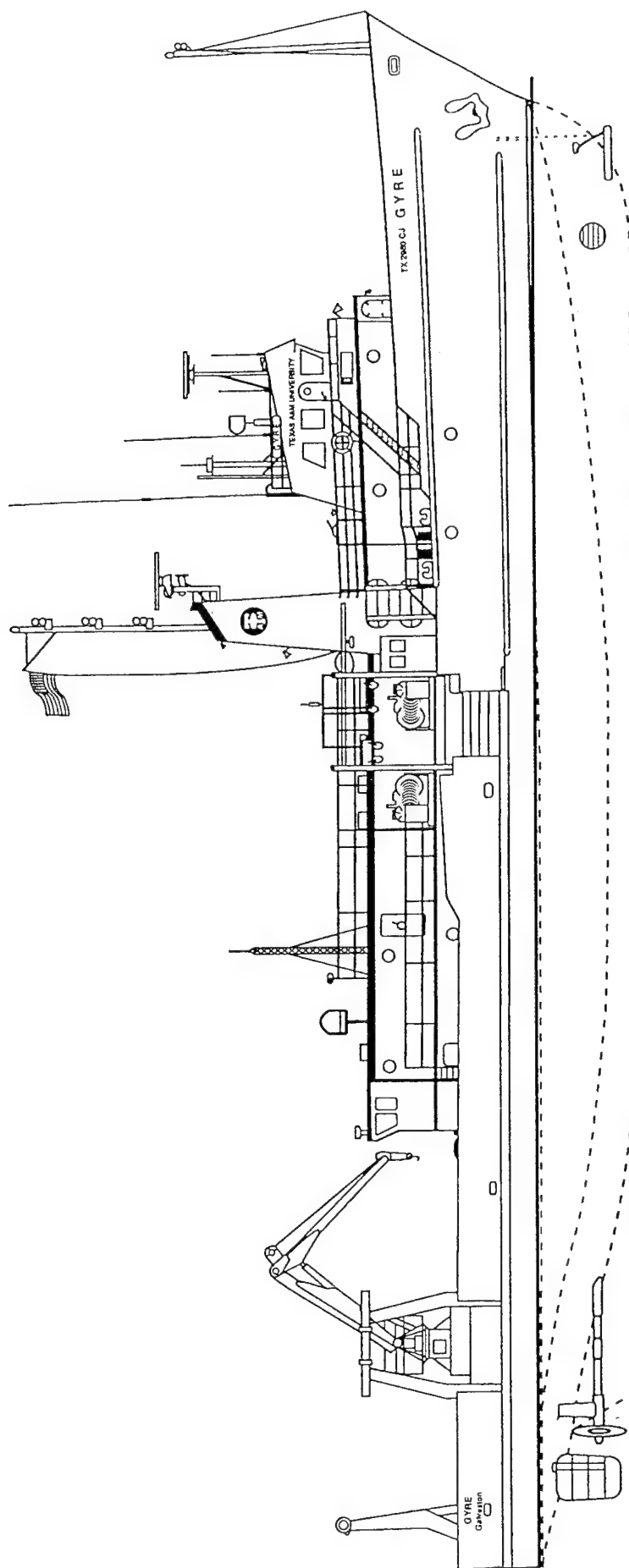
#### FUEL DETAILS

FUEL CAPACITY: 89000 GALLONS  
FUEL TYPE: DIESEL FUEL MARINE  
FUEL CONSUMPTION RATES:  
AT NORMAL CRUISING SPEED: 1600 GAL/24-HRS  
DURING AVERAGE OPERATIONS: 1400 GAL/24-HRS  
DURING INPORT OPERATIONS: 400 GAL/24-HRS

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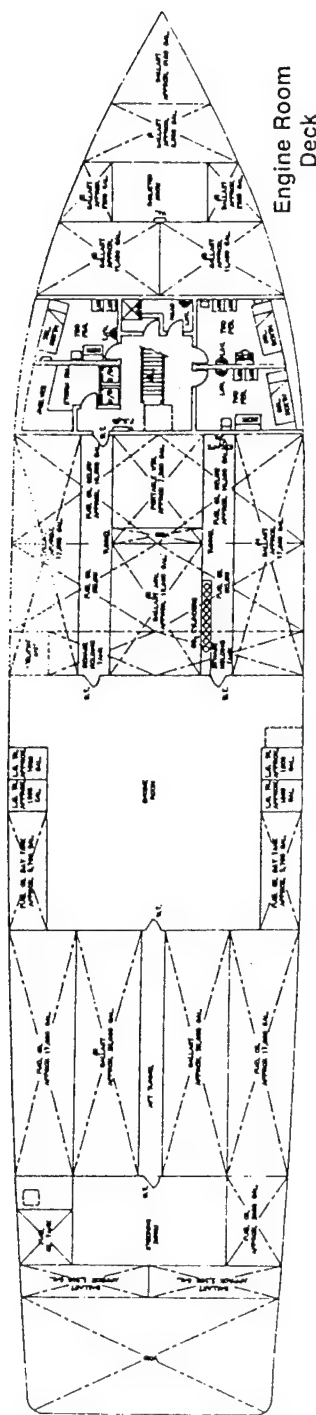
R/V GYRE



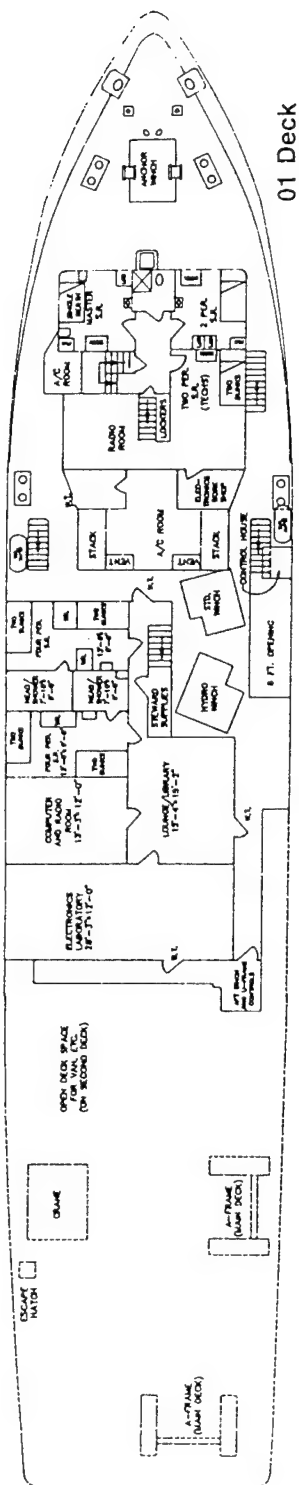
OUTBOARD PROFILE

**R/V GYRE**

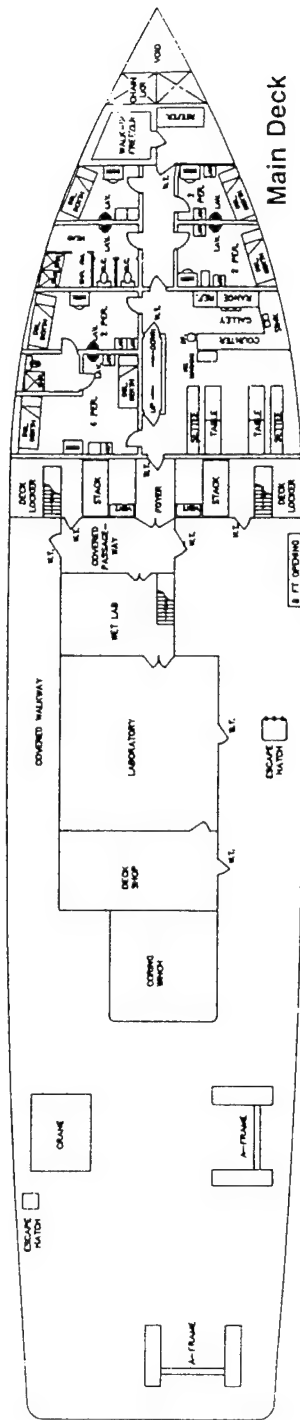




Engine Room Deck



01 Deck



Main Deck

DECK PLANS

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LONGHORN

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. JOHN H. THOMPSON  
POC OFFICE: ASSOCIATE DIRECTOR FOR ADMINISTRATION  
POC ORGANIZATION: MARINE SCIENCE LABORATORY  
POC ADDRESS: UNIVERSITY OF TEXAS  
POC CITY/STATE: PORT ARANSAS TX 78373  
COMMERCIAL AREA CODE: 512  
PHONE: 749-6760

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: TRAWLER  
CALL SIGN (INTERNATIONAL): WZL3621  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: UNIVERSITY OF TEXAS  
CERTIFICATION AUTHORITY: TEXAS PARKS & WILDLIFE  
FLAG REGISTRY: USA  
HOME PORT: PORT ARANSAS TX  
TECHNICAL SPONSOR: UNIVERSITY OF TEXAS  
OPERATIONS CONTROL: U.TEX.-PORT ARANSAS MARINE LAB  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 2.0/87 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 10  
NUMBER OFFICERS: 2  
NUMBER IN CREW: 4  
MAX SEA STATE: 3 BEAUFORT SCALE  
ENDURANCE: 18 DAY(S)  
LIMITING FACTOR: WATER-REFRIG. STORES  
BUILDER: ALLIED SHIPYARD  
WHERE BUILT: LAROSE, LA USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '71  
DELIVERY DATE: '71  
COMMISSION DATE: '71  
CONVERSION DATE: '86  
LAST OVERHAUL: '86  
MAINTENANCE CYCLE: 1.6 YEARS  
END OF LIFE: 2000  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 105.0 FEET  
MAX BEAM: 24.2 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 175  
DISPLACEMENT: 210 TONS  
DRAUGHT: 7.3 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 2000 NAUTICAL MILES  
MAX SPEED: 9.5 KNOTS  
MIN SPEED: 1.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: HYDRAULIC, TUNNEL  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: 8X8X20  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:  
    1. 15 FOOT RUBBER INFLATABLE  
    2. 16 FOOT UTILITY  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 6000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 2500 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 4000 FEET  
        WIRE DIAMETER: 0.500 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 9800 FEET  
        WIRE DIAMETER: 0.250 INCHES

03. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE:  
SLIP-RINGS: 1  
WIRE TYPE: CONDUCTOR CABLE  
WIRE LENGTH: 9700 FEET  
WIRE DIAMETER: 0.219 INCHES

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ELECTRONIC EQUIPMENT

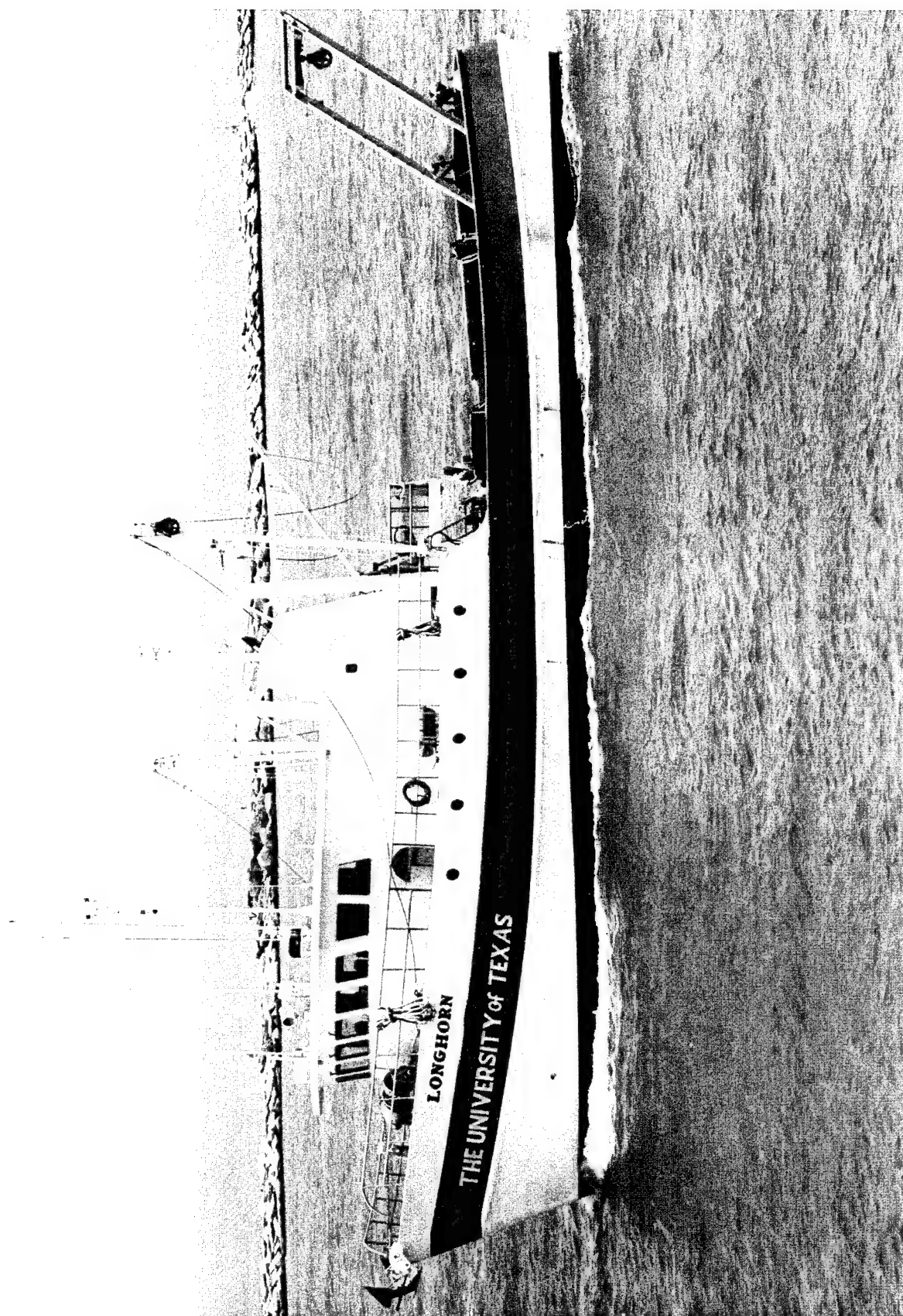
COMPUTERS: IBM-PC  
FACSIMILE: N  
ELECTROMAGNETIC LOG: N  
INERTIAL NAVIGATION: N  
RADAR (SURFACE SCAN): Y  
LORAN A: N  
LORAN C: Y  
OMEGA: N  
SATELLITE NAVIGATION: N  
RADIO TELETYPE COMMUNICATION: N  
SINGLE SIDE BAND: Y  
VHF COMMUNICATIONS: Y  
STABLE TABLE: N  
NARROW BEAM: N  
SEISMIC PROFILING: N  
SIDE SCAN: N  
SOUNDING SYSTEM (SHALLOW): MORROW  
SOUNDING SYSTEM (DEEP): FURUNO

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FUEL DETAILS

FUEL CAPACITY: 11000 GALLONS  
FUEL TYPE: DIESEL #2/DIESEL #1  
FUEL CONSUMPTION RATES:  
AT NORMAL CRUISING SPEED: 960 GAL/24-HRS  
DURING AVERAGE OPERATIONS: 400 GAL/24-HRS  
DURING INPORT OPERATIONS: 140 GAL/24-HRS

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R/V LORNHORN

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CLIFFORD A BARNES

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. K. W. JEFFERS  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: SCHOOL OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF WASHINGTON WB10  
POC CITY/STATE: SEATTLE WA 98195  
COMMERCIAL AREA CODE: 206  
PHONE: 543-5062

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ADMINISTRATIVE DETAILS

DESIGNATOR: -  
CLASS: STEEL HULL UTILITY  
CALL SIGN (INTERNATIONAL): -  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - GENERAL  
SHIP OWNER: NATIONAL SCIENCE FOUNDATION  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: SEATTLE WA USA  
TECHNICAL SPONSOR: UNIVERSITY OF WASHINGTON  
OPERATIONS CONTROL: UNIVERSITY OF WASHINGTON  
CONTRACTUAL INFORMATION: NSF OCE 82-19239 EXPIRES 10/92  
OPERATING COST/DAY: 3.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 6  
NUMBER OFFICERS: 0  
NUMBER IN CREW: 2  
MAX SEA STATE: 2 BEAUFORT SCALE  
ENDURANCE: 7 DAY(S)  
LIMITING FACTOR: CREW  
BUILDER: WESTERN BOAT BUILDING CORP.  
WHERE BUILT: TACOMA WA USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: '00  
DELIVERY DATE: '66  
COMMISSION DATE: '82  
CONVERSION DATE: '84  
LAST OVERHAUL: '90  
MAINTENANCE CYCLE: 4.0 YEARS  
END OF LIFE: 2004  
UPDATE OF INFORMATION: 29 OCT 90

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SHIP DIMENSIONS

LENGTH: 65.5 FEET  
MAX BEAM: 19.6 FEET  
HEIGHT: 27.0 FEET  
GROSS TONNAGE: -  
DISPLACEMENT: 86 TONS  
DRAUGHT: 6.7 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 1600 NAUTICAL MILES  
MAX SPEED: 10.0 KNOTS  
MIN SPEED: 1.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: NO  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: N  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:  
    1. 13 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF FRAMES: 0  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 1600 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: CTD  
        SECONDARY TYPE/USE: UTILITY  
        SLIP-RINGS: 1  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 4500 FEET  
        WIRE DIAMETER: 0.322 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 5000 FEET  
        WIRE DIAMETER: 0.188 INCHES

03.	MAJOR TYPE/USE:	ANCHOR
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	1500 FEET
	WIRE DIAMETER:	0.500 INCHES
04.	MAJOR TYPE/USE:	OTHER
	SECONDARY TYPE/USE:	TRAWL
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	600 FEET
	WIRE DIAMETER:	0.500 INCHES
05.	MAJOR TYPE/USE:	OTHER
	SECONDARY TYPE/USE:	TRAWL
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	600 FEET
	WIRE DIAMETER:	0.500 INCHES
06.	MAJOR TYPE/USE:	CTD
	SLIP-RINGS:	1
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	1000 FEET
	WIRE DIAMETER:	0.322 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	FURUNO

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#### FUEL DETAILS

FUEL CAPACITY:	1900 GALLONS
FUEL TYPE:	DIESEL #2/DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	220 GAL/24-HRS
DURING AVERAGE OPERATIONS:	105 GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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THOMAS G. THOMPSON

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. K. W. JEFFERS  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: SCHOOL OF OCEANOGRAPHY  
POC ADDRESS: UNIVERSITY OF WASHINGTON WB10  
POC CITY/STATE: SEATTLE WA 98195  
COMMERCIAL AREA CODE: 206  
PHONE: 543-5062

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: AGOR-23  
CALL SIGN (INTERNATIONAL): KTDQ  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH - GENERAL  
SHIP OWNER: OFFICE OF NAVAL RESEARCH  
CERTIFICATION AUTHORITY: US COAST GUARD  
FLAG REGISTRY: USA  
HOME PORT: SEATTLE WA USA  
TECHNICAL SPONSOR: UNIVERSITY OF WASHINGTON  
OPERATIONS CONTROL: UNIVERSITY OF WASHINGTON  
CONTRACTUAL INFORMATION: CHARTER PARTY AGREEMENT TO BE EXECUTED  
OPERATING COST/DAY: 15.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 27  
NUMBER OFFICERS: 9  
NUMBER IN CREW: 13  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 33 DAYS @ 14KT AND 29 DAYS @ 3KT  
LIMITING FACTOR: FOOD/FUEL  
BUILDER: HALTER MARINE, INC.  
WHERE BUILT: MOSS POINT MS USA  
INITIAL COST: 27.0/90 MILLION \$'S IN YEAR  
DUE DATE: -  
KEEL DATE: 29 MAR 89  
LAUNCH DATE: 27 JUL 90  
DELIVERY DATE: 00 AUG 90  
COMMISSION DATE: -  
CONVERSION DATE: -  
LAST OVERHAUL: -  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 2020  
UPDATE OF INFORMATION: 29 OCT 90

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SHIP DIMENSIONS

LENGTH: 274.0 FEET  
MAX BEAM: 52.5 FEET  
HEIGHT: 92.0 FEET  
GROSS TONNAGE: 2050  
DISPLACEMENT: 3250 TONS  
DRAUGHT: 19.0 FEET  
CRUISE SPEED: 12.5 KNOTS  
RANGE: 13000 NAUTICAL MILES  
MAX SPEED: 14.0 KNOTS  
MIN SPEED: 1.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC  
AUXILIARY PROPULSION: -  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: YES, WATER JET  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: ROBERTSON ROBPOS  
ANTI-ROLL: Y  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X20 (MULTIPLE)  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: Y  
HELO SUPPORT: HOVER AREA ONLY  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. 26 FOOT AVON SR-8 RIB  
    2. 15 FOOT ALUMINUM SKIFF  
    3. 15 FOOT ACHILLES INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 24000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 42000 POUNDS  
    NUMBER OF CRANES: 4  
WINCHES:  
    01. MAJOR TYPE/USE: CTD  
        SECONDARY TYPE/USE: -  
        SLIP-RINGS: -  
        WIRE TYPE: CONDUCTOR CABLE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.322 INCHES  
    02. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: -  
        SLIP-RINGS: -  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.250 INCHES

03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	-
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.563 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LENH:	30000 FEET
SECONDARY WIRE DIAM:	0.680 INCHES

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### ELECTRONIC EQUIPMENT

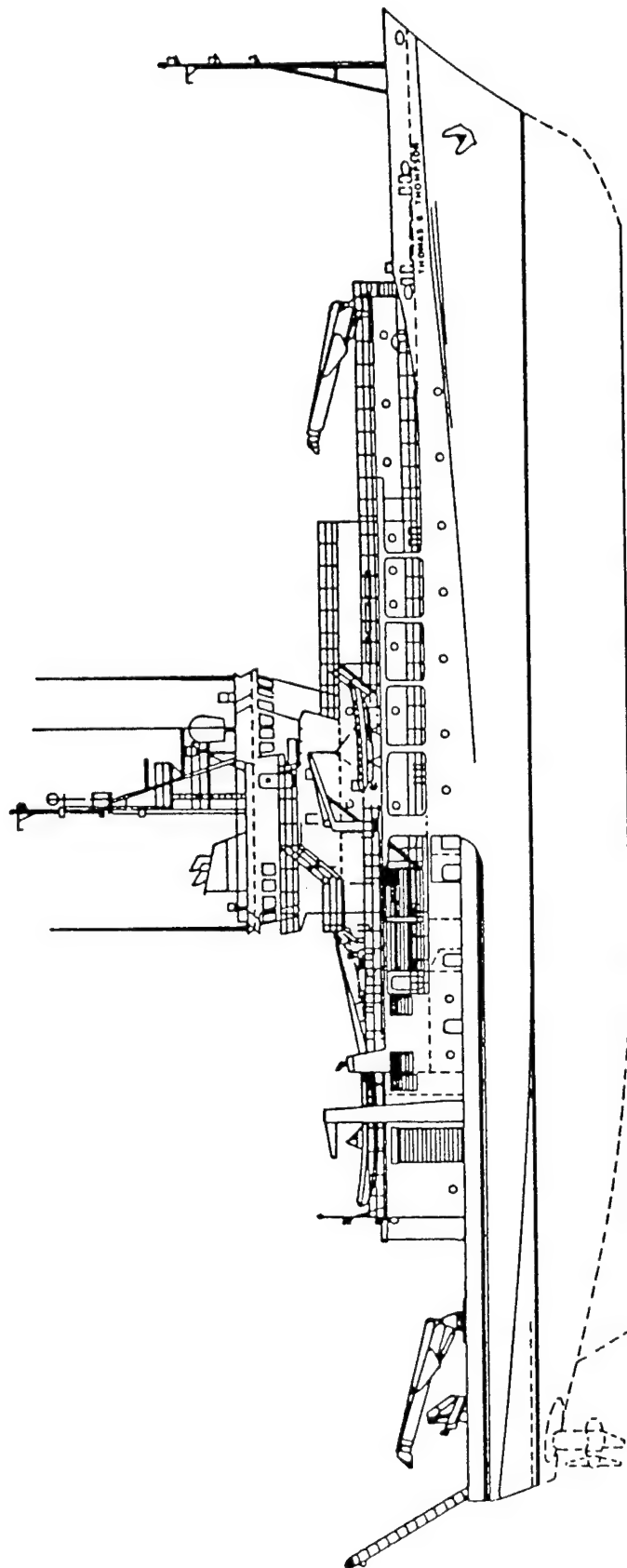
COMPUTERS:	DATA ACQUISITION, PCs
FACSIMILE:	Y
SPEED LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON

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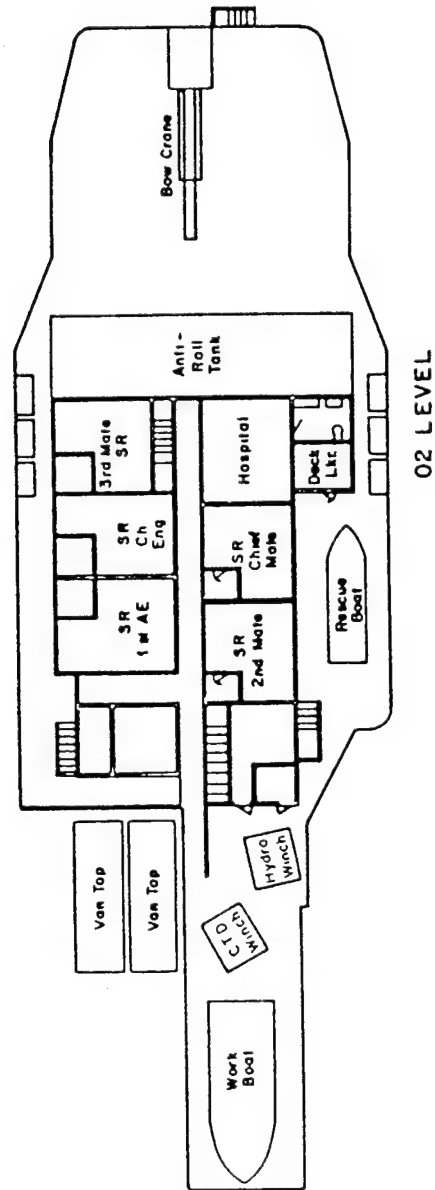
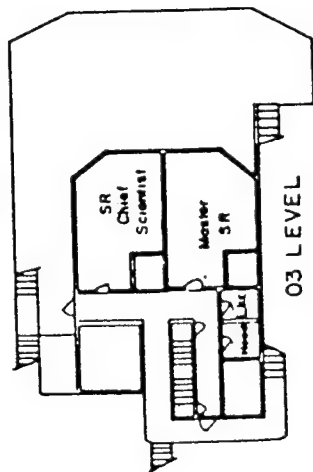
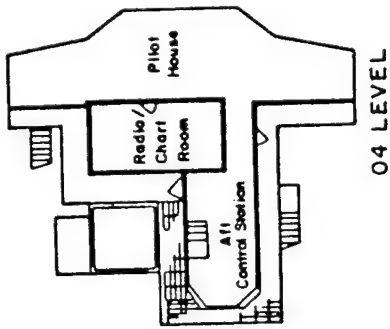
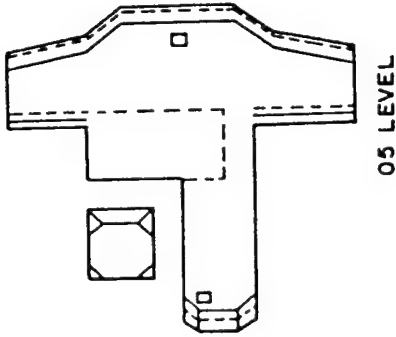
### FUEL DETAILS

FUEL CAPACITY:	265000 GALLONS
FUEL TYPE:	MARINE DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	4500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	3000 GAL/24-HRS
DURING INPORT OPERATIONS:	1000 GAL/24-HRS

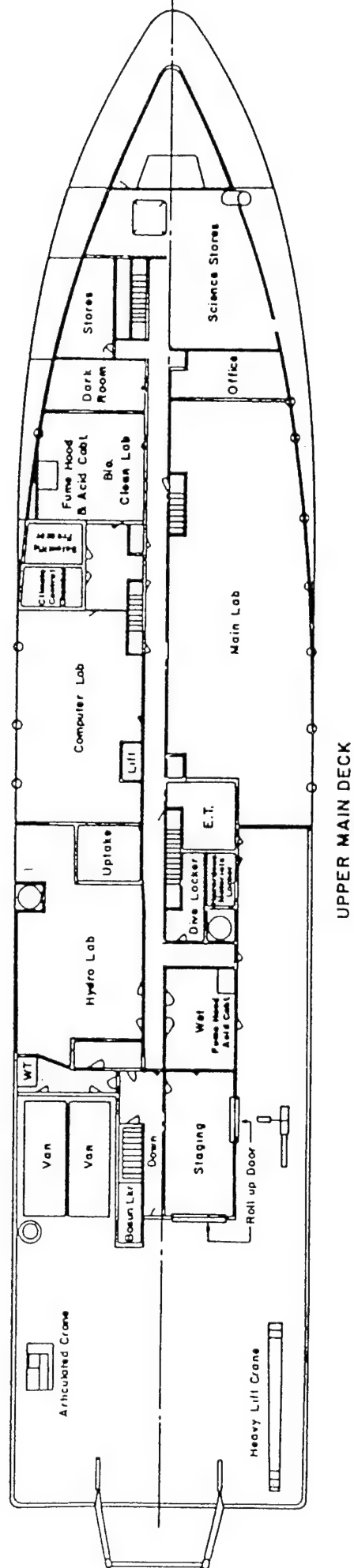
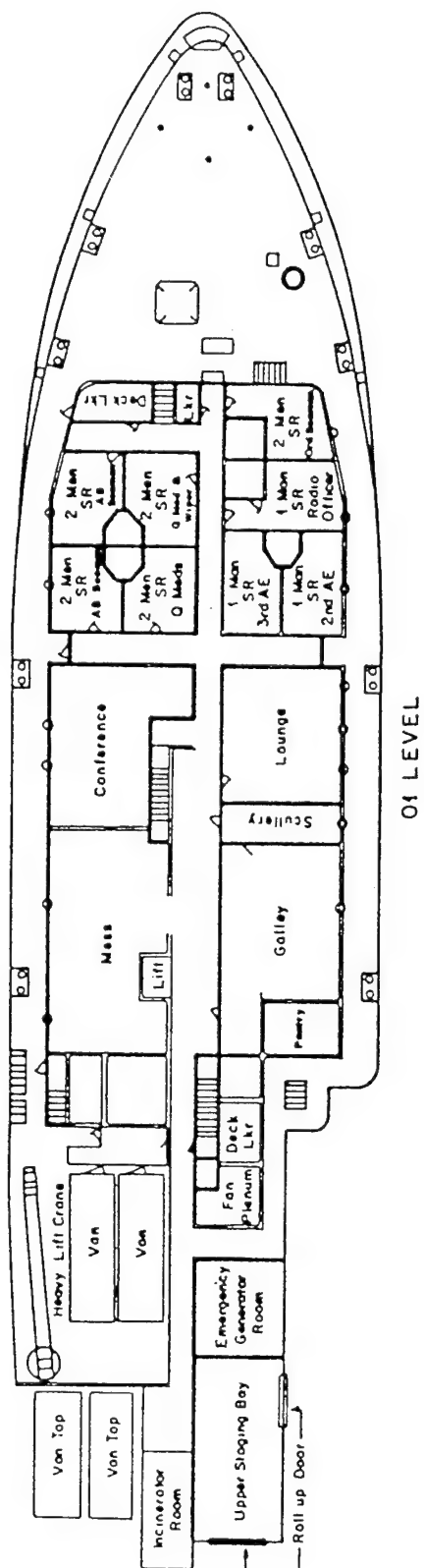
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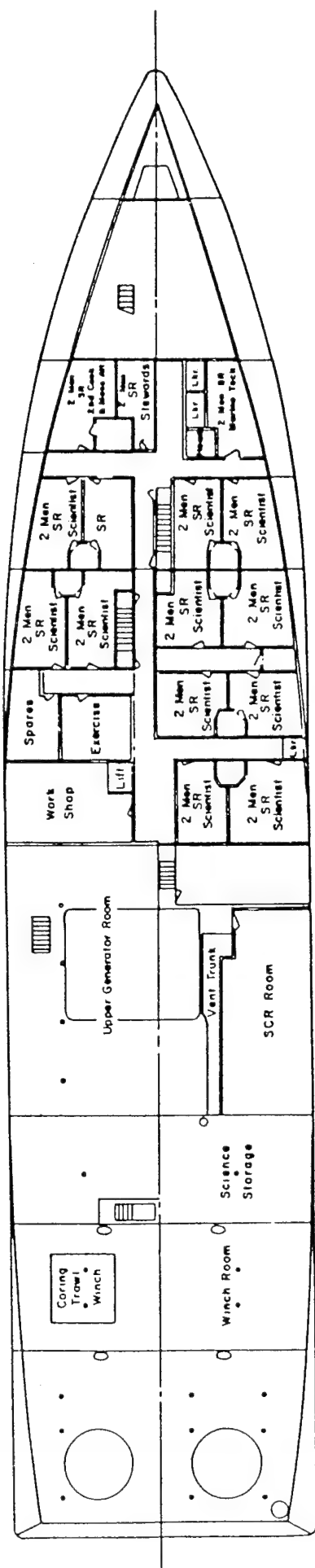
R/V THOMAS G. THOMPSON  
OUTBOARD PROFILE



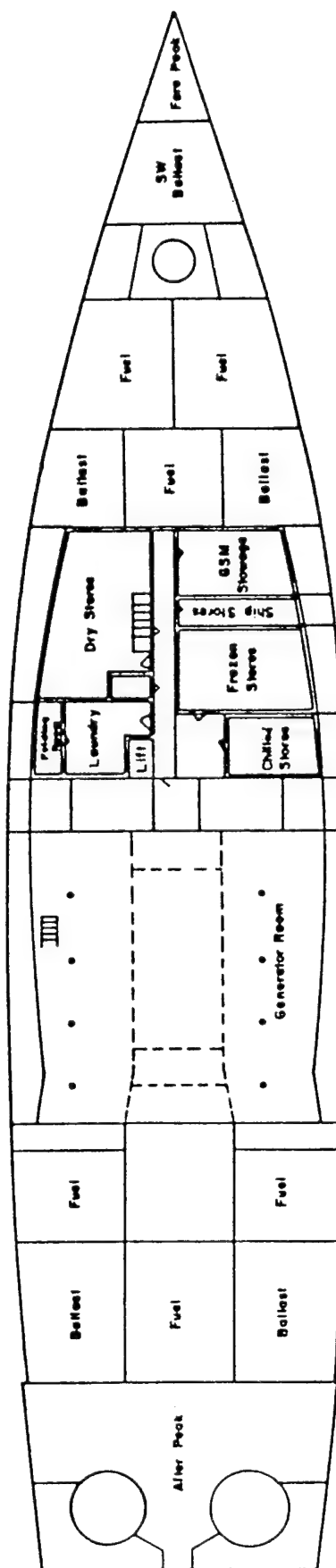
R/V THOMAS G. THOMPSON



**R/V THOMAS G. THOMPSON**



1st PLATFORM DECK



HOLD & TANK TOP PLAN

R/V THOMAS G. THOMPSON

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ATLANTIS II

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT. J. L. COBURN, JR.
POC OFFICE:	MARINE OPERATIONS MANAGER
POC ORGANIZATION:	MARINE OPERATIONS
POC ADDRESS:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
POC CITY/STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	548-1400

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ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	-
CALL SIGN (INTERNATIONAL):	KADC
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-SUBMERSIBLE TENDER
SHIP OWNER:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CERTIFICATION AUTHORITY:	USCG
FLAG REGISTRY:	USA
HOME PORT:	WOODS HOLE MA
TECHNICAL SPONSOR:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	14.9/90 THOUSAND \$'S IN YR
SCIENTIFIC COMPLEMENT:	28
NUMBER OFFICERS:	-
NUMBER IN CREW:	25
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	ALVIN REQUIREMENTS
BUILDER:	MARYLAND SHIPBUILDING AND DRYDOCK CO.
WHERE BUILT:	BALTIMORE MD USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'62
DELIVERY DATE:	31 JAN 63
COMMISSION DATE:	'00
CONVERSION DATE:	'83
LAST OVERHAUL:	00 JAN 88
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1999
UPDATE OF INFORMATION:	27 APR 90



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SHIP DIMENSIONS

LENGTH: 210.3 FEET  
MAX BEAM: 44.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 1529  
DISPLACEMENT: 2300 TONS  
DRAUGHT: 16.0 FEET  
CRUISE SPEED: 11.5 KNOTS  
RANGE: 9000 NAUTICAL MILES  
MAX SPEED: 13.0 KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: DIESEL  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: TRAINABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: N  
UTILITY BOATS:  
    1. 16 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 56000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 40000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.500 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.187 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.303 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	MICROVAX, PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	SEA BEAM

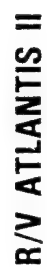
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FUEL DETAILS

FUEL CAPACITY:	90000 GALLONS
FUEL TYPE:	MG-O
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	GAL/24-HRS
DURING AVERAGE OPERATIONS:	GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT J. L. COBURN, JR.  
POC OFFICE: MARINE OPERATIONS MANAGER  
POC ORGANIZATION: MARINE OPERATIONS  
POC ADDRESS: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
POC CITY/STATE: WOODS HOLE MA 02543  
COMMERCIAL AREA CODE: 508  
PHONE: 548-1400

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ADMINISTRATIVE DETAILS

DESIGNATOR: AGOR 15  
CLASS: MELVILLE/AGOR 14  
CALL SIGN (INTERNATIONAL): KCEJ  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: USN  
CERTIFICATION AUTHORITY: US COAST GUARD  
FLAG REGISTRY: USA  
HOME PORT: WOODS HOLE MA  
TECHNICAL SPONSOR: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
OPERATIONS CONTROL: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE 05 AUG 90  
OPERATING COST/DAY: 17.0/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: -  
NUMBER OFFICERS: -  
NUMBER IN CREW: 25  
MAX SEA STATE: - BEAUFORT SCALE  
ENDURANCE: 35 DAY(S)  
LIMITING FACTOR: -  
BUILDER: DEFOE SHIPBUILDING COMPANY  
WHERE BUILT: BAY CITY MI USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: 09 AUG 67  
LAUNCH DATE: 21 AUG 68  
DELIVERY DATE: '70  
COMMISSION DATE: 14 JAN 70  
CONVERSION DATE: 00 MAY 90  
LAST OVERHAUL: 18 DEC 86  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2010  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 278.8 FEET  
MAX BEAM: 46.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 2200  
DISPLACEMENT: 2685 TONS  
DRAUGHT: 15.5 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 14000 NAUTICAL MILES  
MAX SPEED: 14.0 KNOTS  
MIN SPEED: 0.1 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: RETRACTABLE, TRAINABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: Y  
ANTI-ROLL: Y  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X20  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: NO  
UTILITY BOATS:

1. 19 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES

MAX HOIST CAPACITY: POUNDS  
NUMBER OF FRAMES: 0  
CRANES OR BOOMS  
MAX HOIST CAPACITY: 70000 POUNDS  
NUMBER OF CRANES: 2

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE:  
SLIP-RINGS: N  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 30000 FEET  
WIRE DIAMETER: 0.187 INCHES  
02. MAJOR TYPE/USE: HYDROGRAPHIC  
SECONDARY TYPE/USE:  
SLIP-RINGS: Y  
WIRE TYPE: CONDUCTOR CABLE  
WIRE LENGTH: 33000 FEET  
WIRE DIAMETER: 0.322 INCHES

03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.500 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	Y, TYPE UNKNOWN
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	HYDRO PRODUCTS
SOUNDING SYSTEM (DEEP):	RAYTHEON

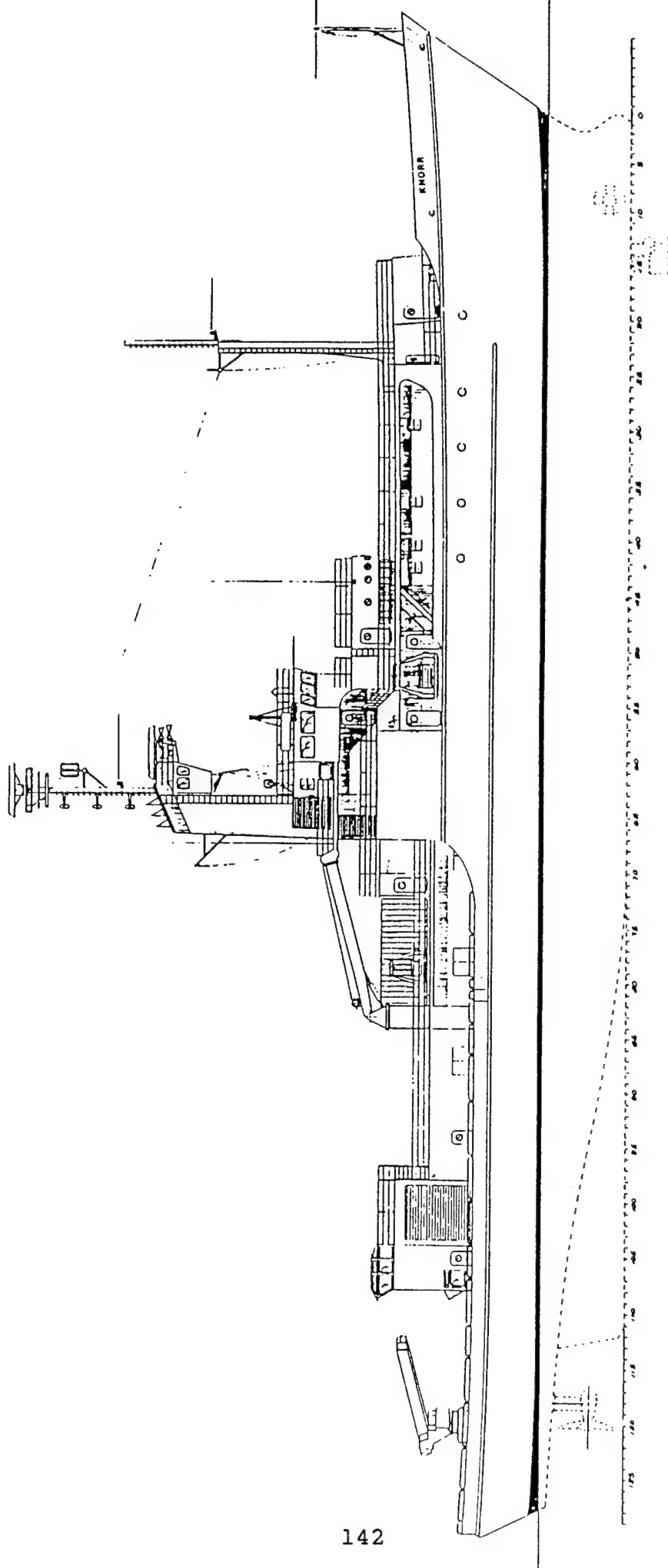
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FUEL DETAILS

FUEL CAPACITY:	160000 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2000 GAL/24-HRS
DURING INPORT OPERATIONS:	500 GAL/24-HRS

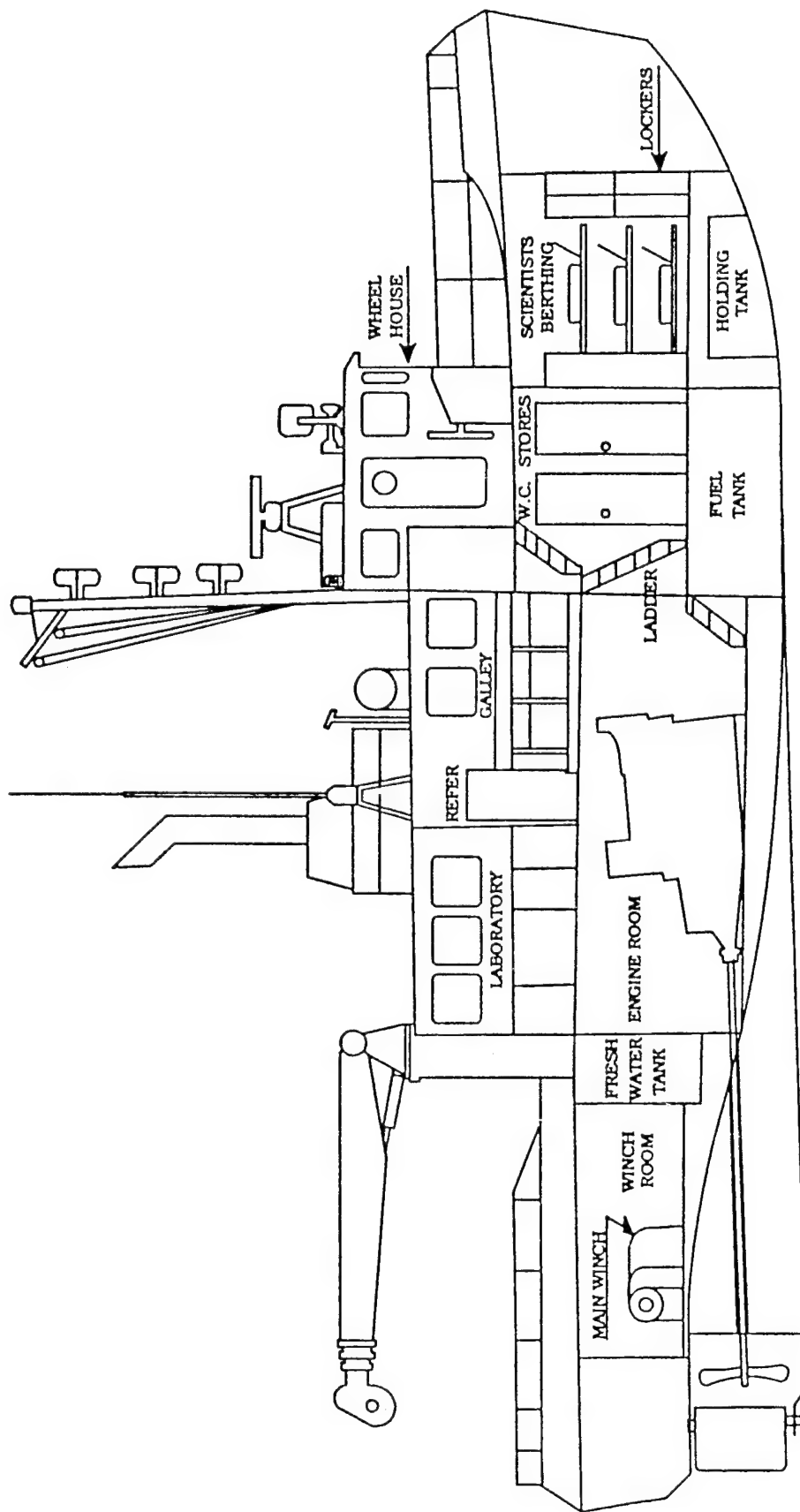
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R/V KNORR

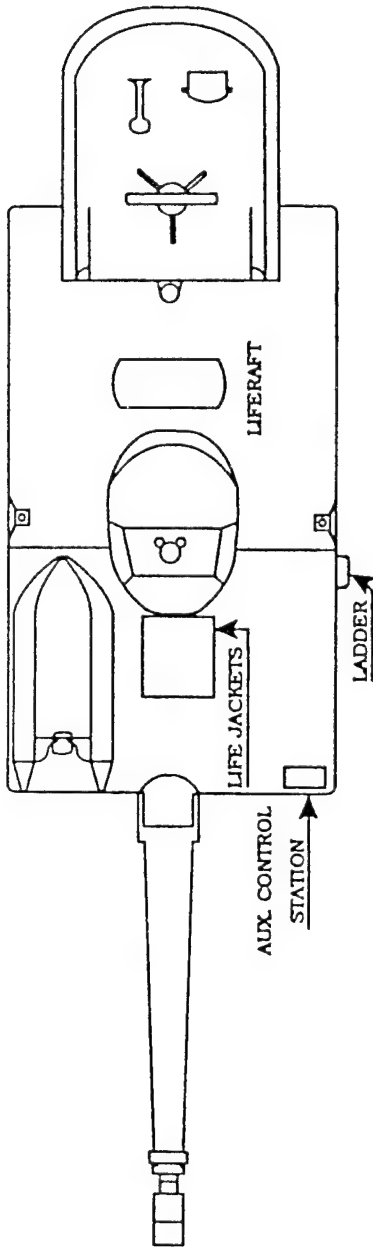
New Outboard Profile of AGOR-15 as Proposed



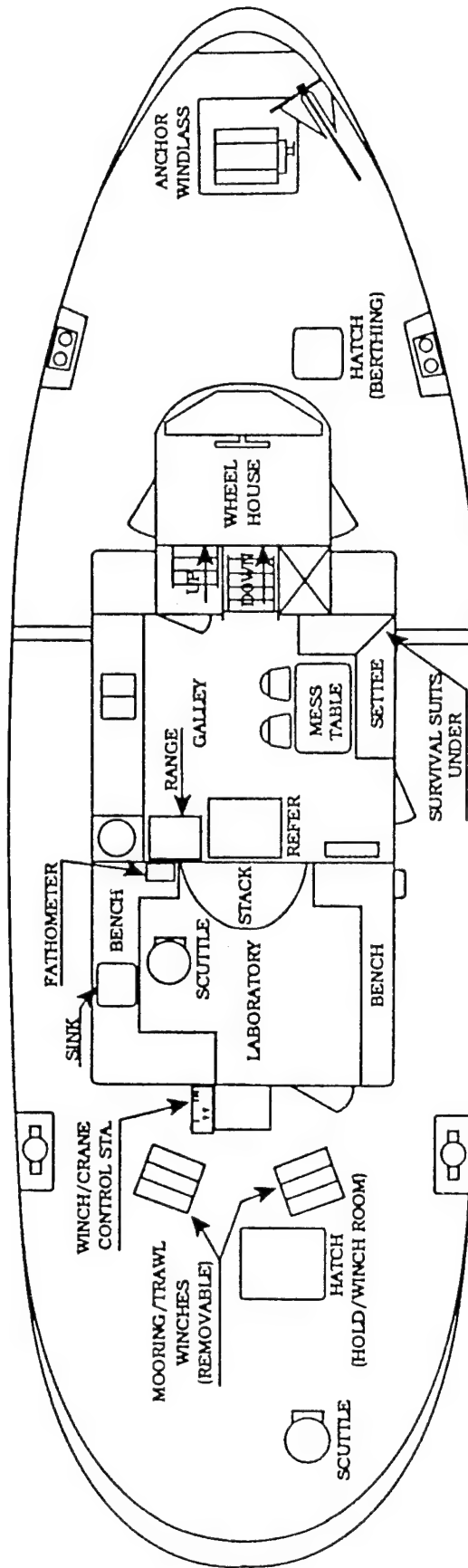
R/V KNORR

# INBOARD PROFILE





## UPPER DECK



R/V KNORR

## MAIN DECK

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OCEANUS

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT J. L. COBURN, JR.  
POC OFFICE: MARINE OPERATIONS MANAGER  
POC ORGANIZATION: MARINE OPERATIONS  
POC ADDRESS: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
POC CITY/STATE: WOODS HOLE MA 02543  
COMMERCIAL AREA CODE: 508  
PHONE: 548-1400

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: OCEANUS  
CALL SIGN (INTERNATIONAL): WXAQ  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: NSF  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: WOODS HOLE MA  
TECHNICAL SPONSOR: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
OPERATIONS CONTROL: WOODS HOLE OCEANOGRAPHIC INSTITUTION  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 7.9/90 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 12  
NUMBER OFFICERS: -  
NUMBER IN CREW: 12  
MAX SEA STATE: - BEAUFORT SCALE  
ENDURANCE: 25 DAY(S)  
LIMITING FACTOR: -  
BUILDER: PETERSON BUILDERS INC  
WHERE BUILT: STURGEON BAY WI USA  
INITIAL COST: 3.5/75 MILLION \$'S IN YEAR  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: 19 DEC 74  
DELIVERY DATE: 21 NOV 75  
COMMISSION DATE: '00  
CONVERSION DATE: '91  
LAST OVERHAUL: 00 AUG 89  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2020  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 177.0 FEET  
MAX BEAM: 33.0 FEET  
HEIGHT: 86.0 FEET  
GROSS TONNAGE: 297  
DISPLACEMENT: 960 TONS  
DRAUGHT: 17.5 FEET  
CRUISE SPEED: 12.5 KNOTS  
RANGE: 7500 NAUTICAL MILES  
MAX SPEED: 15.0 KNOTS  
MIN SPEED: 1.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: TRAINABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X8X13  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: -  
UTILITY BOATS:  
    1. 15 FOOT RUBBER INFLATABLE  
    2. 12 FOOT SKIFF  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 30000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 30000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: CORING  
        SLIP-RINGS: Y  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 30000 FEET  
        WIRE DIAMETER: 0.500 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.187 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.303 INCHES

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ELECTRONIC EQUIPMENT

COMPUTERS:	PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS
SOUNDING SYSTEM (DEEP):	EDO RAYTHEON

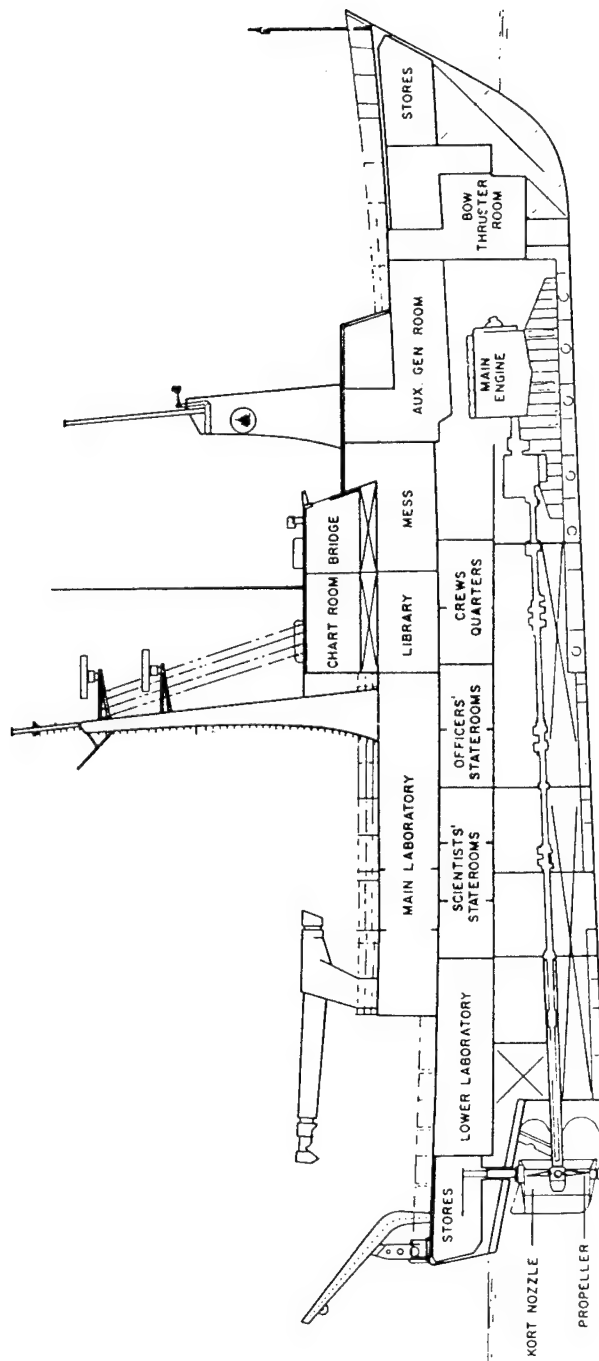
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FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	GAL/24-HRS
DURING AVERAGE OPERATIONS:	GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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**R/V OCEANUS**

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LAURENTIAN

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: LINDA GOAD  
POC OFFICE: CENTER FOR GREAT LAKES & AQUATIC SCIENCES  
POC ORGANIZATION: UNIVERSITY OF MICHIGAN  
POC ADDRESS: 2200 BONISTEEL BLVD  
POC CITY/STATE: ANN ARBOR MI 48109-2099  
COMMERCIAL AREA CODE: 313  
PHONE: 763-5393  
FAX: 747-2748

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: TRAWLER  
CALL SIGN (INTERNATIONAL): -  
FLEET: UNOLS  
SHIP TYPE: COASTAL ZONE RESEARCH-GENERAL  
SHIP OWNER: REGENTS, UNIVERSITY OF MICHIGAN  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: GRAND HAVEN MICHIGAN  
TECHNICAL SPONSOR: UNIVERSITY OF MICHIGAN  
OPERATIONS CONTROL: CENTER FOR GREAT LAKES & AQUATIC SCIENCES  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 3.8/91 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 8  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 4  
MAX SEA STATE: 4 BEAUFORT SCALE  
ENDURANCE: 10 DAY(S)  
LIMITING FACTOR: STORES  
BUILDER: F B WALKER & SONS INC.  
WHERE BUILT: PASCAGOULA MS USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '00  
LAUNCH DATE: 00 APR 74  
DELIVERY DATE: 00 JUN 74  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 00 APR 89  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 1998  
UPDATE OF INFORMATION: 31 OCT 91

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SHIP DIMENSIONS

LENGTH: 80.0 FEET  
MAX BEAM: 21.5 FEET  
HEIGHT: 40.0 FEET  
GROSS TONNAGE: 129  
DISPLACEMENT: 180 TONS  
DRAUGHT: 8.8 FEET  
CRUISE SPEED: 8.5 KNOTS  
RANGE: 3000 NAUTICAL MILES  
MAX SPEED: 9.6 KNOTS  
MIN SPEED: 0.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: N  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: N  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: 600 FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: Y  
UTILITY BOATS:  
    1. 13 FOOT BOSTON WHALER  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 2000 POUNDS  
    NUMBER OF FRAMES: 1  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 2000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: ANCHOR  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 2000 FEET  
        WIRE DIAMETER: 0.190 INCHES  
    02. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: CORING  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 2000 FEET  
        WIRE DIAMETER: 0.500 INCHES

03. MAJOR TYPE/USE:	BATHYTHERMOGRAPHIC
SECONDARY TYPE/USE:	OTHER
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1500 FEET
WIRE DIAMETER:	0.125 INCHES
04. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.125 INCHES
05. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	
SLIP-RINGS:	10
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	2300 FEET
WIRE DIAMETER:	0.322 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	Y-ZENITH 286
FACSIMILE:	Y-ALDEN MARINE FAX 4
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	ROSS 801/250CG
SOUNDING SYSTEM (DEEP):	NONE

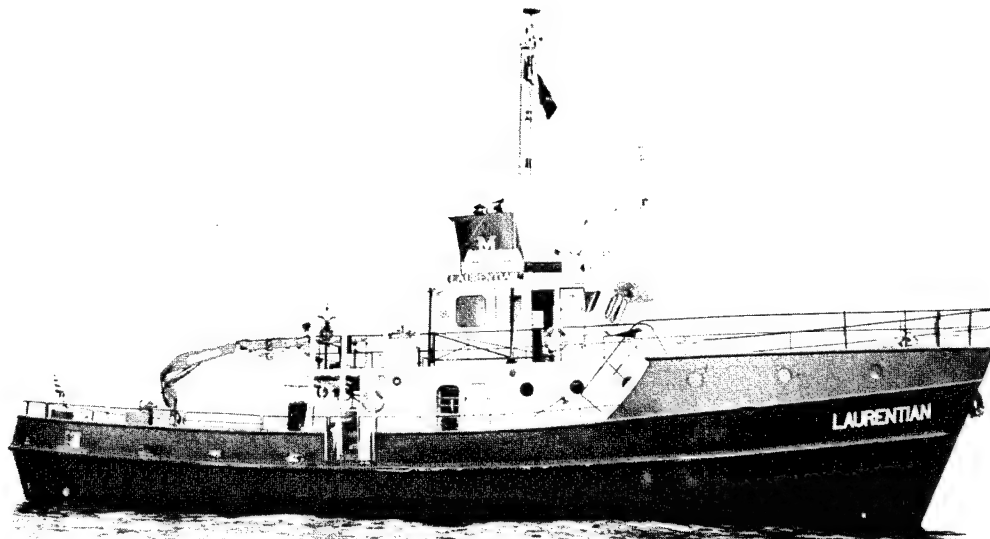
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#### FUEL DETAILS

FUEL CAPACITY:	9000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	336 GAL/24-HRS
DURING AVERAGE OPERATIONS:	300 GAL/24-HRS
DURING INPORT OPERATIONS:	95 GAL/24-HRS

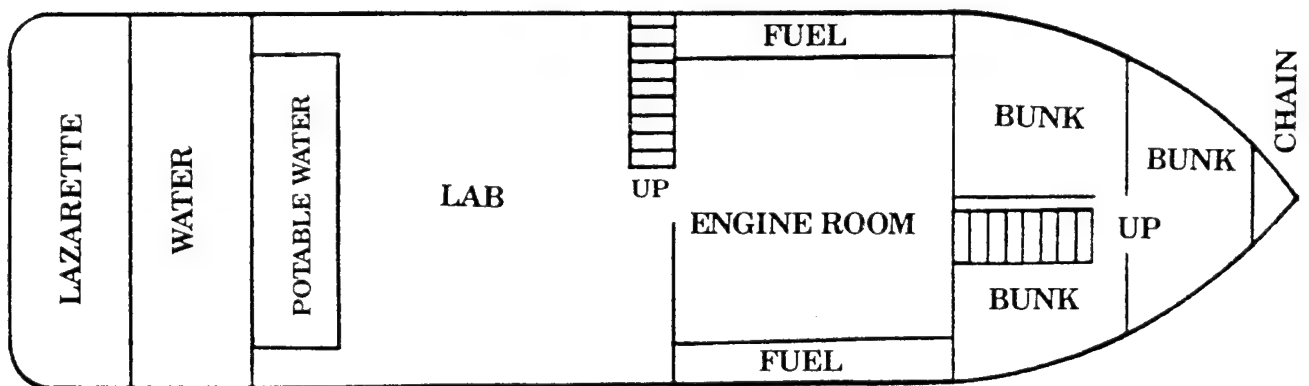
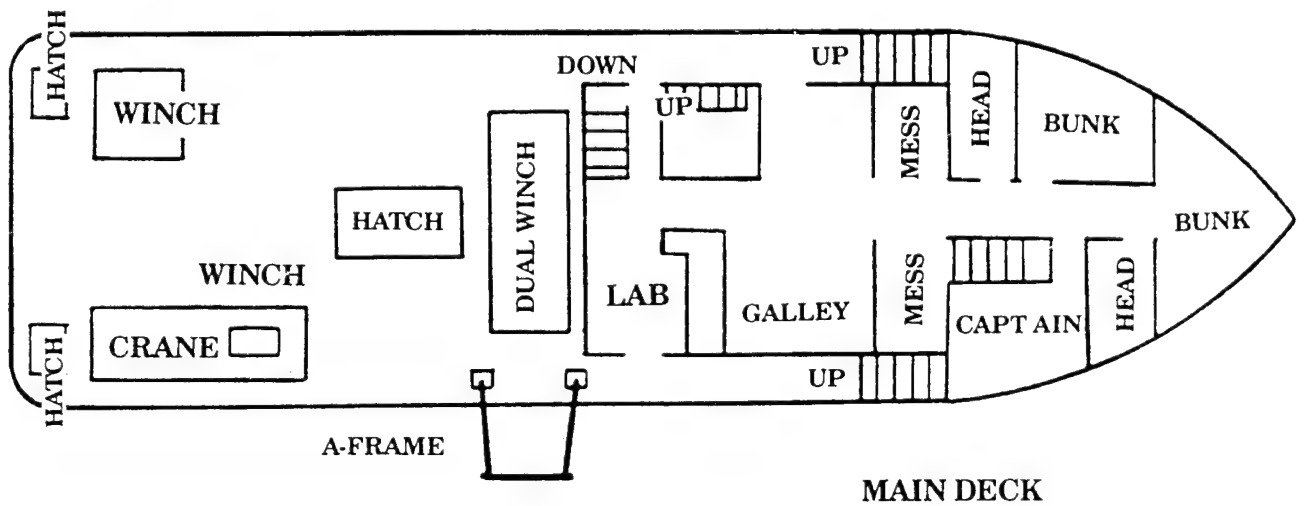
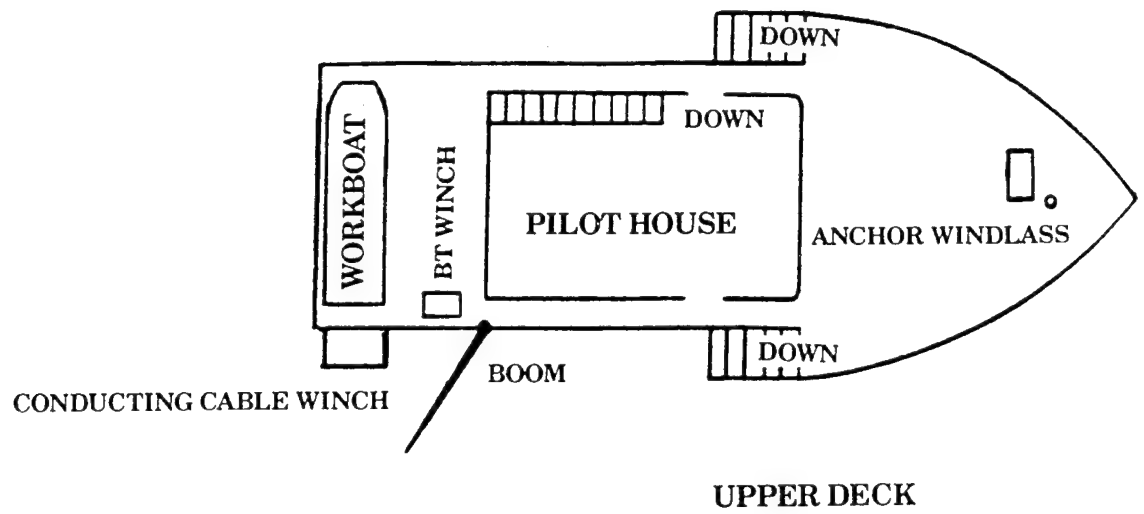
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R/V LAURENTIAN

# DECK PLANS



R/V LAURENTIAN

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WEATHERBIRD II

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. HOWARD S. BARNES  
POC OFFICE: OPERATIONS  
POC ORGANIZATION: BERMUDA BIOLOGICAL STATION FOR RESEARCH, INC.  
POC ADDRESS: 17 BIOLOGICAL STATION LANE  
POC CITY/STATE: FERRY REACH ST. GEORGE'S GE01 BERMUDA  
COMMERCIAL AREA CODE: 809  
PHONE: 297-1880  
FAX: 297-8143

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: GENERAL PURPOSE-OCEAN RESEARCH VESSEL  
CALL SIGN (INTERNATIONAL): WAH4677  
FLEET: UNOLS  
SHIP TYPE: OCEAN RESEARCH-GENERAL  
SHIP OWNER: BBSR  
CERTIFICATION AUTHORITY: US COAST GUARD  
FLAG REGISTRY: USA  
HOME PORT: ST. GEORGE'S BERMUDA  
TECHNICAL SPONSOR: BBSR  
OPERATIONS CONTROL: BBSR  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 4.8/91 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 8-10  
NUMBER OFFICERS: -  
NUMBER IN CREW: 6-8  
MAX SEA STATE: 3 BEAUFORT SCALE  
ENDURANCE: 14 DAY(S)  
LIMITING FACTOR: STORES  
BUILDER: BOSARGE MARINE  
WHERE BUILT: ALABAMA USA  
INITIAL COST: 0.385/82 MILLION \$'S IN YEAR  
DUE DATE: -  
KEEL DATE: '82  
LAUNCH DATE: '82  
DELIVERY DATE: '89  
COMMISSION DATE: '89  
CONVERSION DATE: '89  
LAST OVERHAUL: '89  
MAINTENANCE CYCLE: 1.5 YEARS  
END OF LIFE: 2005  
UPDATE OF INFORMATION: 26 OCT 90

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SHIP DIMENSIONS

LENGTH: 115.0 FEET  
MAX BEAM: 28.0 FEET  
HEIGHT: 44.0 FEET  
GROSS TONNAGE: 105  
DISPLACEMENT: 250 TONS  
DRAUGHT: 8.5 FEET  
CRUISE SPEED: 9.5 KNOTS  
RANGE: 7500 NAUTICAL MILES  
MAX SPEED: 9.5 KNOTS  
MIN SPEED: 3.0 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL HYDRAULIC  
AUXILIARY PROPULSION: NO  
NUMBER OF SHAFTS: 2  
BOW THRUSTER: N  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: YES DIMENSIONS UNKNOWN  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: N  
UTILITY BOATS:  
    1. 10 FOOT AVON RIB  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 20000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 20000 POUNDS  
    NUMBER OF CRANES: ?  
WINCHES:  
    01. MAJOR TYPE/USE: HYDROGRAPHIC  
        SECONDARY TYPE/USE: NONE  
        SLIP-RINGS: M  
        WIRE TYPE: HYDRO CABLE  
        WIRE LENGTH: 24090 FEET  
        WIRE DIAMETER: 0.188 INCHES  
    02. MAJOR TYPE/USE: MOORING  
        SECONDARY TYPE/USE: HOIST  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 13200 FEET  
        WIRE DIAMETER: 0.500 INCHES

03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	NONE
SLIP-RINGS:	Y
WIRE TYPE:	CTD CABLE
WIRE LENGTH:	26400 FEET
WIRE DIAMETER:	0.225 INCHES
04. MAJOR TYPE/USE:	A FRAME HOIST
SECONDARY TYPE/USE:	MOORING
SLIP-RINGS:	N
WIRE TYPE:	7 X 19
WIRE LENGTH:	3300 FEET
WIRE DIAMETER:	0.625 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	HEWLETT PACKARD & IBM PC
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	FURUNO FCR-1411 & FURUNO 1930
LORAN A:	N
LORAN C:	NORTHSTAR 800-X & FURUNO LC90 MKII
OMEGA:	N
SATELLITE NAVIGATION:	RECAL-DECCA 402
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	DATA MARINE
SOUNDING SYSTEM (DEEP):	RAYTHEON DSF 600

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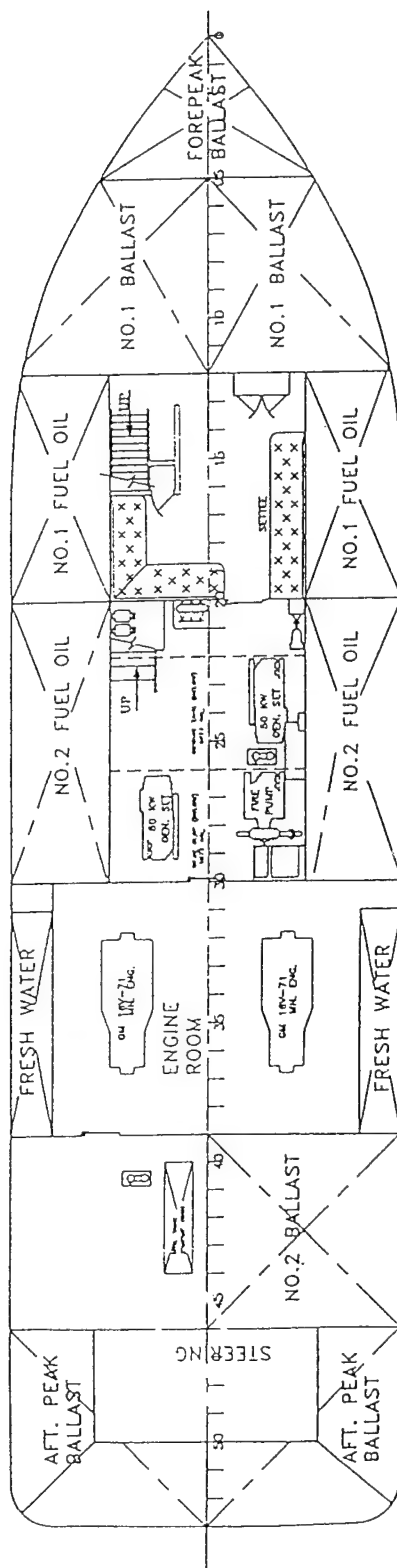
#### FUEL DETAILS

FUEL CAPACITY:	35000 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	800 GAL/24-HRS
DURING AVERAGE OPERATIONS:	400 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

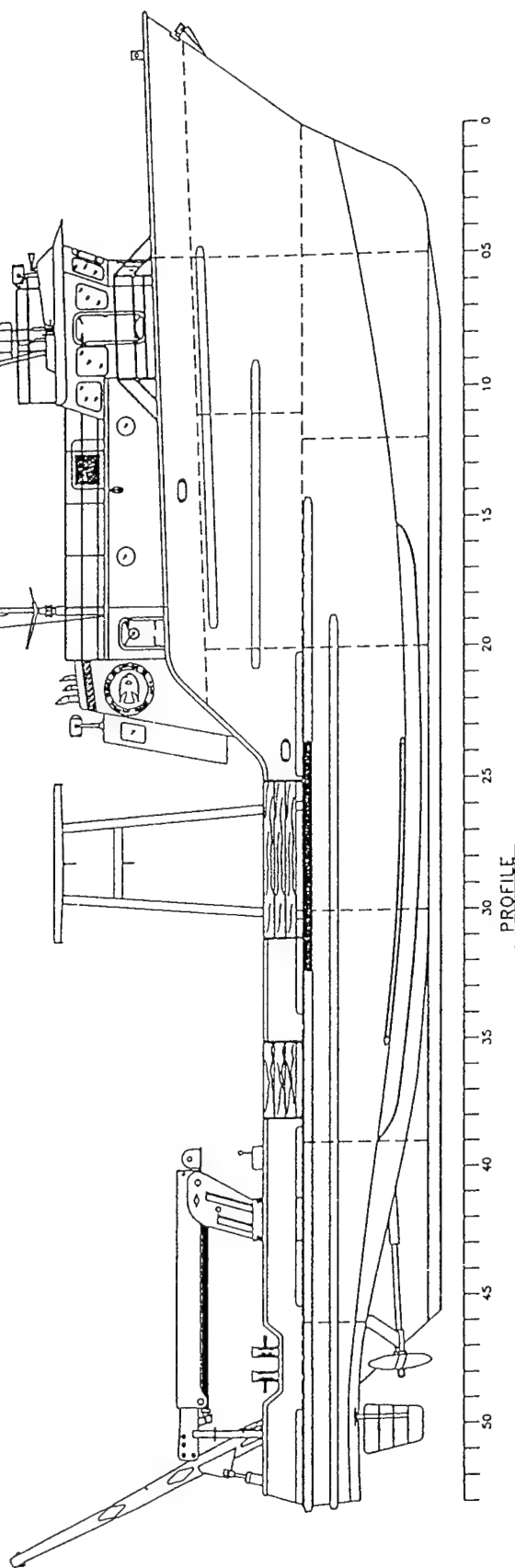
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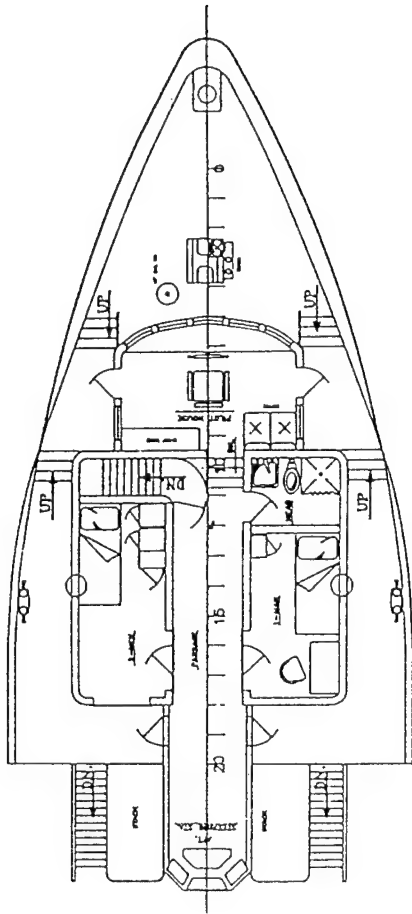
R/V WEATHERBIRD



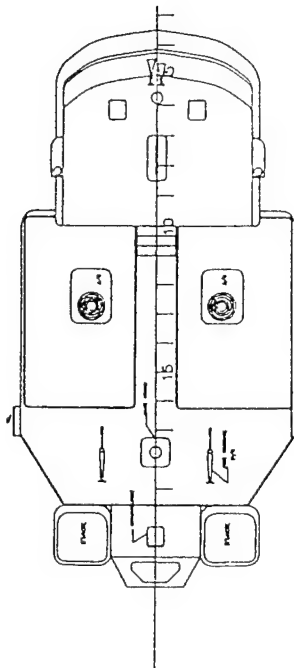
HOLD PLAN



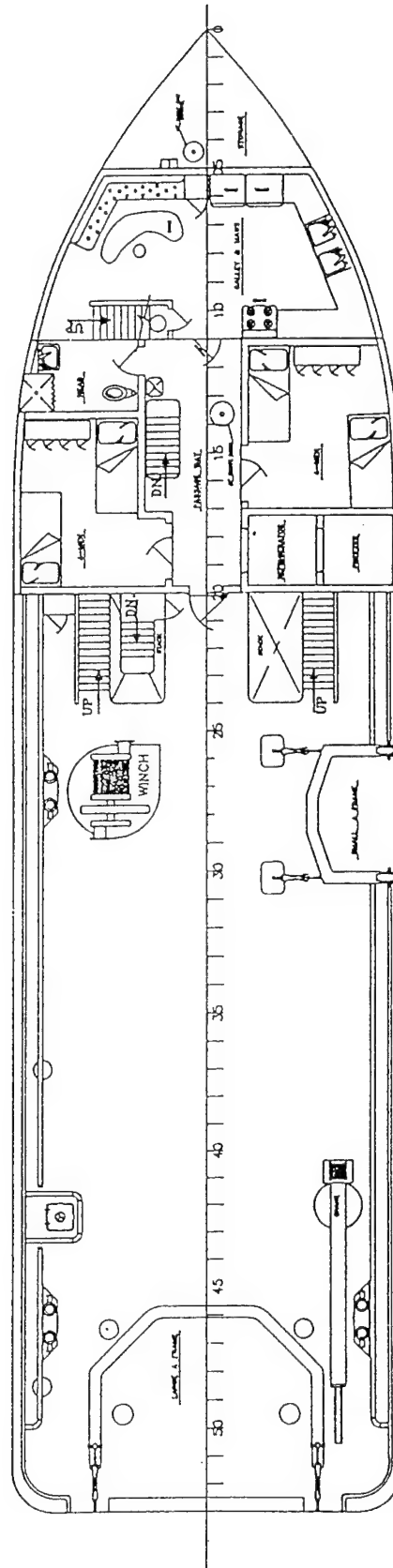
R/V WEATHERBIRD



FOCSE DECK



PILOT HOUSE TOP



MAIN DECK

# R/V WEATHERBIRD



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LINWOOD HOLTON

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: ROBERT N BRAY  
POC OFFICE: SENIOR CAPTAIN  
POC ORGANIZATION: DEPT. OF OCEANOGRAPHY, OLD DOMINION UNIV.  
POC ADDRESS: HAMPTON BLVD.  
POC CITY/STATE: NORFOLK VA 23508  
COMMERCIAL AREA CODE: 804  
PHONE: 440-4285

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: ARMY 'T' BOAT  
CALL SIGN (INTERNATIONAL): WZN9847  
FLEET: UNIV  
SHIP TYPE: COASTAL-BAY SURVEY-GENERAL  
SHIP OWNER: OLD DOMINION UNIVERSITY  
CERTIFICATION AUTHORITY: N/A  
FLAG REGISTRY: USA  
HOME PORT: NORFOLK VA  
TECHNICAL SPONSOR: DEPT OF OCEANOGRAPHY, OLD DOMINION UNIV.  
OPERATIONS CONTROL: DEPT OF OCEANOGRAPHY, OLD DOMINION UNIV.  
CONTRACTUAL INFORMATION: CALL POC FOR AVAILABILITY.  
OPERATING COST/DAY: 1.0/83 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 20  
NUMBER OFFICERS: 1  
NUMBER IN CREW: 1  
MAX SEA STATE: 6 BEAUFORT SCALE  
ENDURANCE: 3 DAY(S)  
LIMITING FACTOR: FUEL  
BUILDER: HIGGINS  
WHERE BUILT: NEW ORLEANS LA USA  
INITIAL COST: -  
DUE DATE: -  
KEEL DATE: -  
LAUNCH DATE: -  
DELIVERY DATE: -  
COMMISSION DATE: '53  
CONVERSION DATE: '70  
LAST OVERHAUL: 28 FEB 81  
MAINTENANCE CYCLE: 2.0 YEARS  
END OF LIFE: 1990  
UPDATE OF INFORMATION: 27 APR 90

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SHIP DIMENSIONS

LENGTH: 65.0 FEET  
MAX BEAM: 18.5 FEET  
HEIGHT: 40.0 FEET  
GROSS TONNAGE: -  
DISPLACEMENT: 95 TONS  
DRAUGHT: 7.0 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 850 NAUTICAL MILES  
MAX SPEED: 11.5 KNOTS  
MIN SPEED: 3.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC  
AUXILIARY PROPULSION: NONE  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: N  
ACTIVE RUDDER: Y  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: NONE FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: Y  
DRY-LAB: N  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:

1. 11 FOOT RUBBER INFLATABLE  
A, U, OR L FRAMES  
MAX HOIST CAPACITY: POUNDS  
NUMBER OF FRAMES: 0  
CRANES OR BOOMS  
MAX HOIST CAPACITY: 1500 POUNDS  
NUMBER OF CRANES: 3  
WINCHES:

01. MAJOR TYPE/USE: TRAWL  
SECONDARY TYPE/USE: UTILITY  
SLIP-RINGS: N  
WIRE TYPE: WIRE ROPE  
WIRE LENGTH: 0300 FEET  
WIRE DIAMETER: 0.313 INCHES  
SECONDARY WIRE TYPE: WIRE ROPE  
SECONDARY WIRE LEN: 0500 FEET  
SECONDARY WIRE DIAM: 0.188 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	0350 FEET
WIRE DIAMETER:	0.188 INCHES
03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	0350 FEET
WIRE DIAMETER:	0.188 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	N
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	NONE

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#### FUEL DETAILS

FUEL CAPACITY:	1150 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	312 GAL/24-HRS
DURING AVERAGE OPERATIONS:	250 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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TOMMY MUNRO

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	RICHARD WALLER
POC OFFICE:	SHIP OPERATIONS COMMITTEE
POC ORGANIZATION:	GULF COAST RESEARCH LABORATORY
POC ADDRESS:	P. O. BOX 7000
POC CITY/STATE:	OCEAN SPRINGS, MS 39564
COMMERCIAL AREA CODE:	601
PHONE:	872-4203

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ADMINISTRATIVE DETAILS

DESIGNATOR:	R/V
CLASS:	TRAWLER
CALL SIGN (INTERNATIONAL):	WRB2908
FLEET:	UNIV
SHIP TYPE:	GENERAL OCEAN RESEARCH
SHIP OWNER:	STATE OF MISSISSIPPI
CERTIFICATION AUTHORITY:	US COAST GUARD - ABS
FLAG REGISTRY:	USA
HOME PORT:	OCEAN SPRINGS MS
TECHNICAL SPONSOR:	-
OPERATIONS CONTROL:	GULF COAST RESEARCH LABORATORY
CONTRACTUAL INFORMATION:	CALL/WRITE POINT OF CONTACT
OPERATING COST/DAY:	- THOUSAND \$'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	-
NUMBER IN CREW:	5
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	20 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	-
WHERE BUILT:	-
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'00
DELIVERY DATE:	'81
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	-
MAINTENANCE CYCLE:	- YEARS
END OF LIFE:	-
UPDATE OF INFORMATION:	05 NOV 90

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SHIP DIMENSIONS

LENGTH: 97.5 FEET  
MAX BEAM: 25.0 FEET  
HEIGHT: - FEET  
GROSS TONNAGE: 159  
DISPLACEMENT: - TONS  
DRAUGHT: 9.0 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 2500 NAUTICAL MILES  
MAX SPEED: - KNOTS  
MIN SPEED: - KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL  
AUXILIARY PROPULSION: -  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: -  
ACTIVE RUDDER: -  
DYNAMIC POSITIONING: -  
ANTI-ROLL: -  
STABILIZER: -  
DEEP ANCHOR: - FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: NONE  
WET-LAB: -  
DRY-LAB: Y  
AMMUNITION STORAGE: -  
HELO SUPPORT: -  
METEOROLOGICAL OBSERVATIONS: SURFACE  
UTILITY BOATS:  
    1. -- FOOT ZODIAC  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: - POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 4000 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE: -  
        SLIP-RINGS: -  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 7000 FEET  
        WIRE DIAMETER: 0.500 INCHES

02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	12
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	13000 FEET
WIRE DIAMETER:	0.250 INCHES
03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	-
SLIP-RINGS:	-
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	6000 FEET
WIRE DIAMETER:	0.375 INCHES

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#### ELECTRONIC EQUIPMENT

COMPUTERS:	-
FACSIMILE:	-
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	-
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	-
SEISMIC PROFILING:	-
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	ATLAS ECHOGRAPH
SOUNDING SYSTEM (DEEP):	DATAMARINE

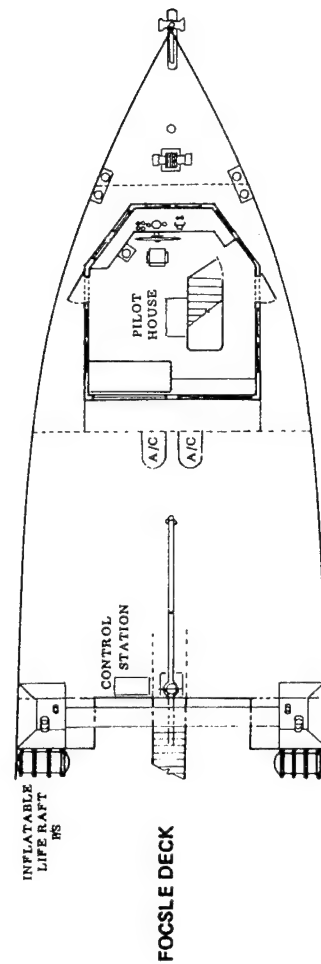
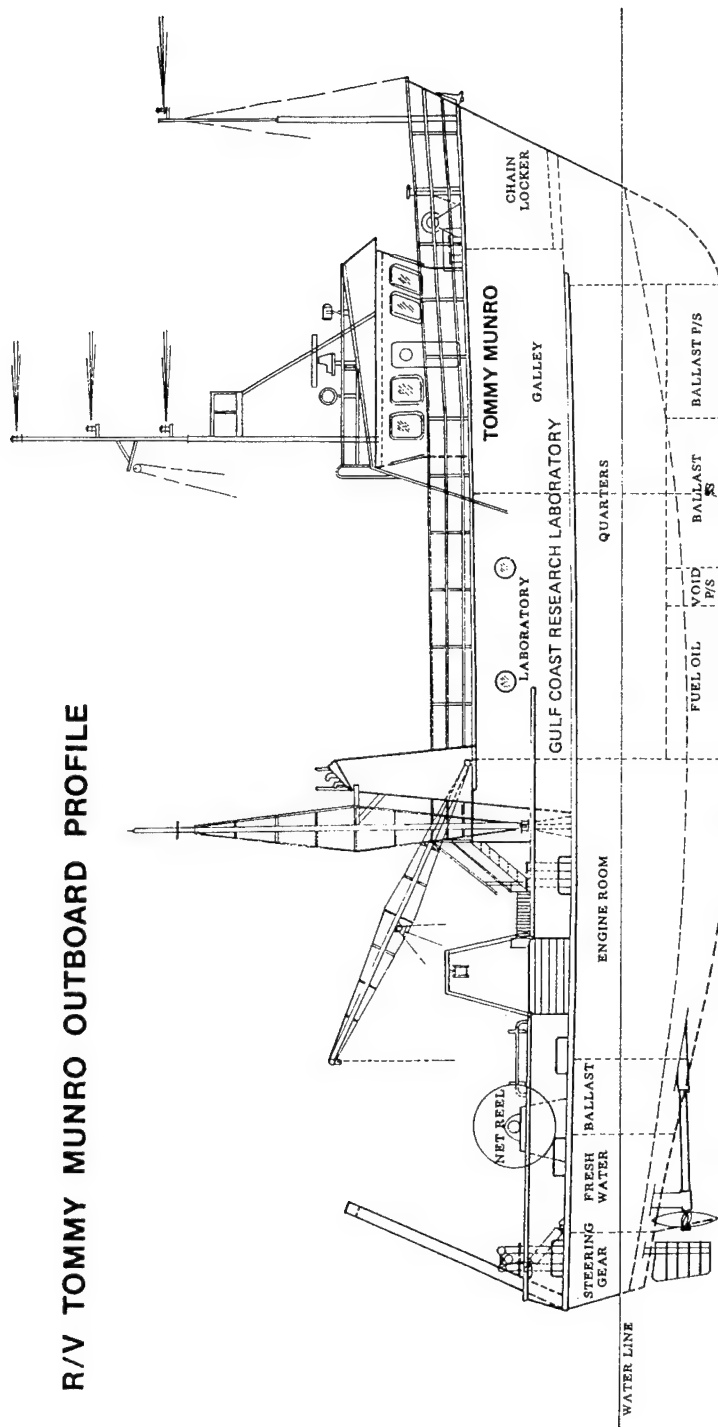
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#### FUEL DETAILS

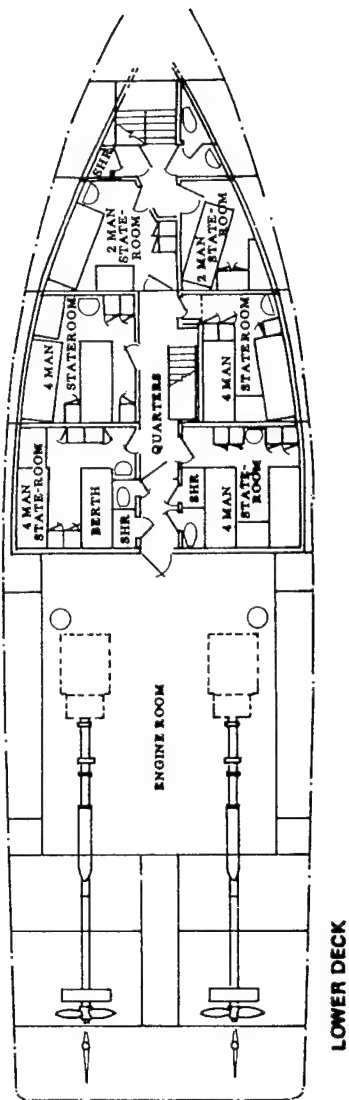
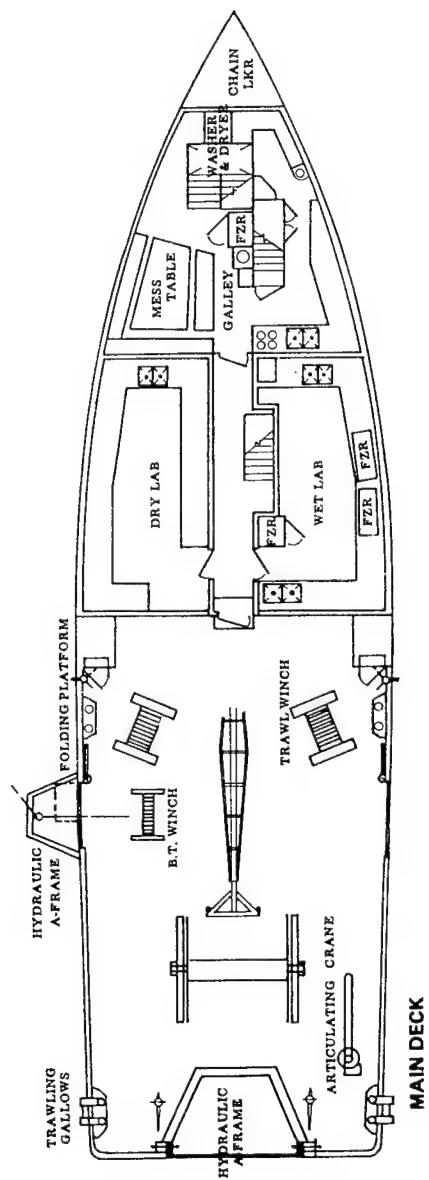
FUEL CAPACITY:	10850 GALLONS
FUEL TYPE:	MARINE DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	- GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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# R/V TOMMY MUNRO OUTBOARD PROFILE



0 2 4 6  
feet  
SCALE



R/V TOMMY MUNRO OUTBOARD PROFILE



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ARGO MAINE

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POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: PHILIP HARMON  
POC OFFICE: MARINE SUPERINTENDENT  
POC ORGANIZATION: MAINE MARITIME ACADEMY - WATERFRONT  
POC ADDRESS: P O BOX C-3  
POC CITY/STATE: CASTINE ME 04420  
COMMERCIAL AREA CODE: 207  
PHONE: 326-4311 EXT. 400

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ADMINISTRATIVE DETAILS

DESIGNATOR: RV  
CLASS: PURSE SEINER  
CALL SIGN (INTERNATIONAL): WTF7434  
FLEET: CIVIL  
SHIP TYPE: OCEANOGRAPHIC MOTOR VESSEL  
SHIP OWNER: MAINE MARITIME ACADEMY  
CERTIFICATION AUTHORITY: -  
FLAG REGISTRY: USA  
HOME PORT: CASTINE ME USE  
TECHNICAL SPONSOR: MAINE MARITIME ACADEMY  
OPERATIONS CONTROL: MAINE MARITIME ACADEMY  
CONTRACTUAL INFORMATION: NONE  
OPERATING COST/DAY: 2.2/91 THOUSAND \$'S IN YR  
SCIENTIFIC COMPLEMENT: 8-10  
NUMBER OFFICERS: 4  
NUMBER IN CREW: 1  
MAX SEA STATE: 5 BEAUFORT SCALE  
ENDURANCE: 20 DAY(S)  
LIMITING FACTOR: STORES  
BUILDER: ALBINA ENGINE AND MACHINE WORKS  
WHERE BUILT: PORTLAND OR USA  
INITIAL COST: -  
DUE DATE: '00  
KEEL DATE: '68  
LAUNCH DATE: '68  
DELIVERY DATE: '68  
COMMISSION DATE: '00  
CONVERSION DATE: '00  
LAST OVERHAUL: 01 JAN 84  
MAINTENANCE CYCLE: 1.0 YEARS  
END OF LIFE: -  
UPDATE OF INFORMATION: 07 DEC 90

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SHIP DIMENSIONS

LENGTH: 80.0 FEET  
MAX BEAM: 24.0 FEET  
HEIGHT: 50.0 FEET  
GROSS TONNAGE: 165  
DISPLACEMENT: 173 TONS  
DRAUGHT: 11.0 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 4500 NAUTICAL MILES  
MAX SPEED: 10.0 KNOTS  
MIN SPEED: 0.5 KNOTS

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ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED  
AUXILIARY PROPULSION: BOW THRUSTER  
NUMBER OF SHAFTS: 1  
BOW THRUSTER: 360 DEG. RETRACTABLE  
ACTIVE RUDDER: N  
DYNAMIC POSITIONING: N  
ANTI-ROLL: N  
STABILIZER: N  
DEEP ANCHOR: 2500 FEET  
BERTHING VAN DIMENSIONS: NONE  
INSTRUMENT VAN DIMENSIONS: 8X10X12  
WET-LAB: Y  
DRY-LAB: Y  
AMMUNITION STORAGE: N  
HELO SUPPORT: N  
METEOROLOGICAL OBSERVATIONS: -  
UTILITY BOATS:  
    1. VARIOUS AVAILABLE  
A, U, OR L FRAMES  
    MAX HOIST CAPACITY: 2000 POUNDS  
    NUMBER OF FRAMES: 2  
CRANES OR BOOMS  
    MAX HOIST CAPACITY: 13230 POUNDS  
    NUMBER OF CRANES: 1  
WINCHES:  
    01. MAJOR TYPE/USE: TRAWL  
        SECONDARY TYPE/USE:  
        SLIP-RINGS: N  
        WIRE TYPE: WIRE ROPE  
        WIRE LENGTH: 19800 FEET  
        WIRE DIAMETER: 0.375 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	4
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	6500 FEET
WIRE DIAMETER:	0.219 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	9900 FEET
SECONDARY WIRE DIAM:	0.187 INCHES
03. MAJOR TYPE/USE:	SONAR
SECONDARY TYPE/USE:	-
SLIP-RINGS:	8
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	1500 FEET
WIRE DIAMETER:	0.375 INCHES
04. MAJOR TYPE/USE:	TRAWL (2)
SECONDARY TYPE/USE:	GENERAL PURPOSE
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	2000 FEET
WIRE DIAMETER:	0.375 INCHES

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#### ELECTRONIC EQUIPMENT

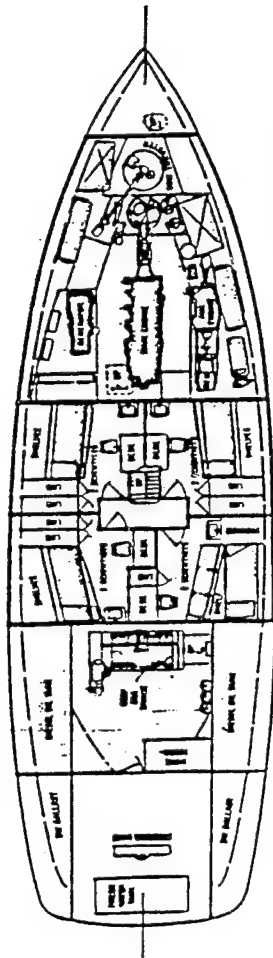
COMPUTERS:	YES (2)
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y (2)
LORAN A:	N
LORAN C:	Y (2)
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y (2)
VHF COMMUNICATIONS:	Y (2)
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	JRC JFV-117 15 & 200 KZ (COLOR)
	SIMRAD EC-810 38, 50 ,200 KZ
SOUNDING SYSTEM (DEEP):	RAYTHEON; EDO WESTERN

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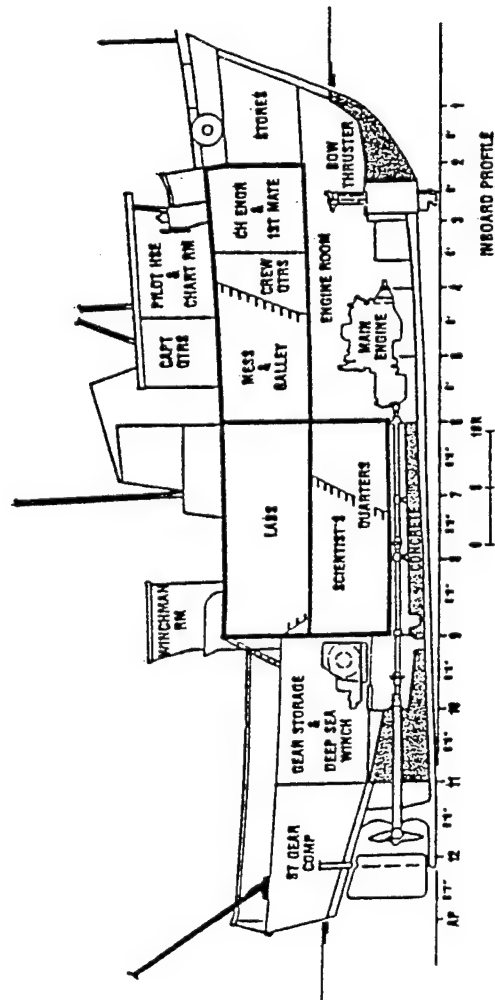
#### FUEL DETAILS

FUEL CAPACITY:	10500 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	150 GAL/24-HRS
DURING INPORT OPERATIONS:	30 GAL/24-HRS

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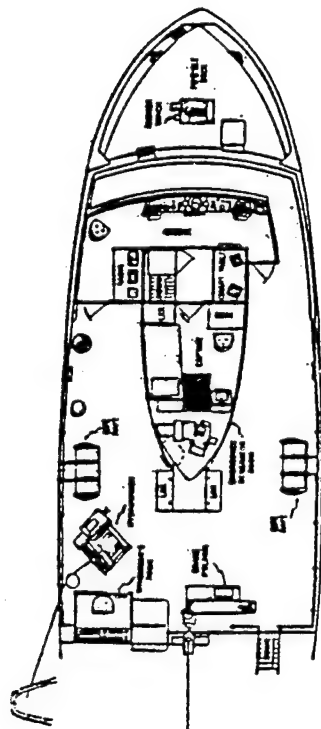


LOWER DECK

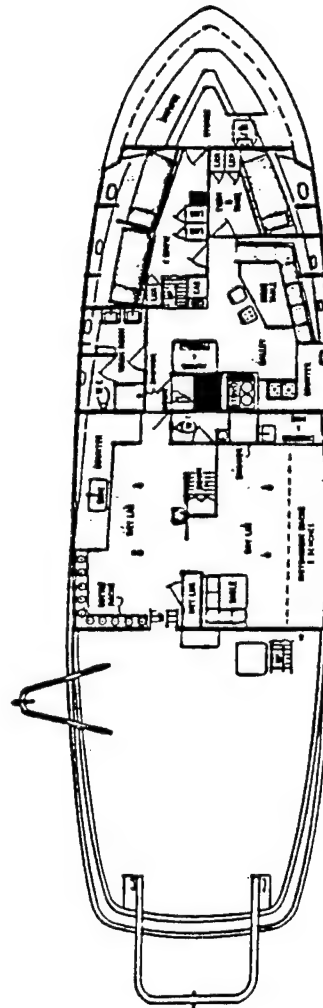


INBOARD PROFILE

R/V ARGO MAINE OUTBOARD PROFILE



UPPER DECK



MAIN DECK

R/V ARGO MAINE OUTBOARD PROFILE

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POINT OF CONTACT INFORMATION (SCHEDULES)

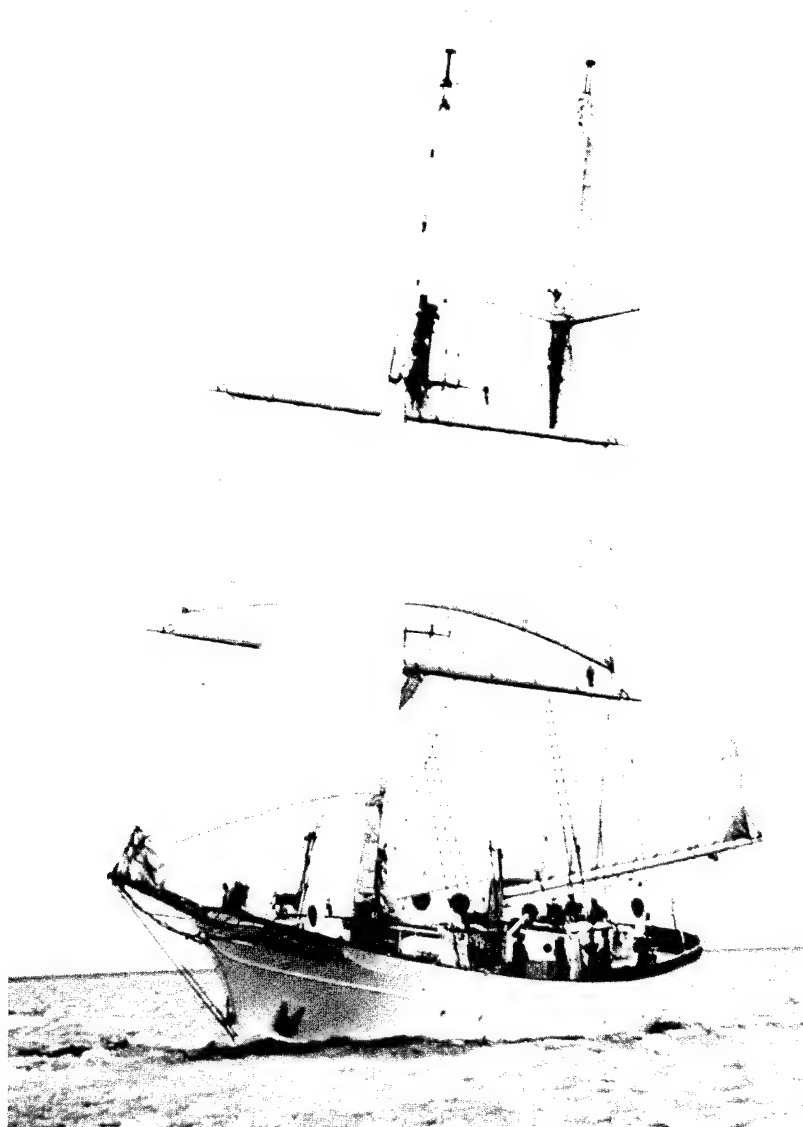
SHIP NAME: CORWITH CRAMER  
NAME: MR. WALLACE C. STARK  
OFFICE: MARINE SUPERINTENDENT  
ORGANIZATION: SEA EDUCATION ASSOCIATION  
ADDRESS: P.O. BOX 6 (171 WOODS HOLE ROAD)  
CITY-STATE: WOODS HOLE MA 02543  
COMMERCIAL AREA CODE: 508  
PHONE: 540-3954

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SHIP DIMENSIONS

LENGTH: 135.0 FEET  
MAX BEAM: 26.0 FEET  
DISPLACEMENT: - TONS  
DRAUGHT: 13.0 FEET  
CRUISE SPEED: - KNOTS  
RANGE: - NAUTICAL MILES

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**R/V CORWITH CRAMER**

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: WESTWARD  
NAME: MR. WALLACE C. STARK  
OFFICE: MARINE SUPERINTENDENT  
ORGANIZATION: SEA EDUCATION ASSOCIATION  
ADDRESS: P.O. BOX 6 (171 WOODS HOLE ROAD)  
CITY-STATE: WOODS HOLE MA 02543  
COMMERCIAL AREA CODE: 508  
PHONE: 540-3954

-----

SHIP DIMENSIONS

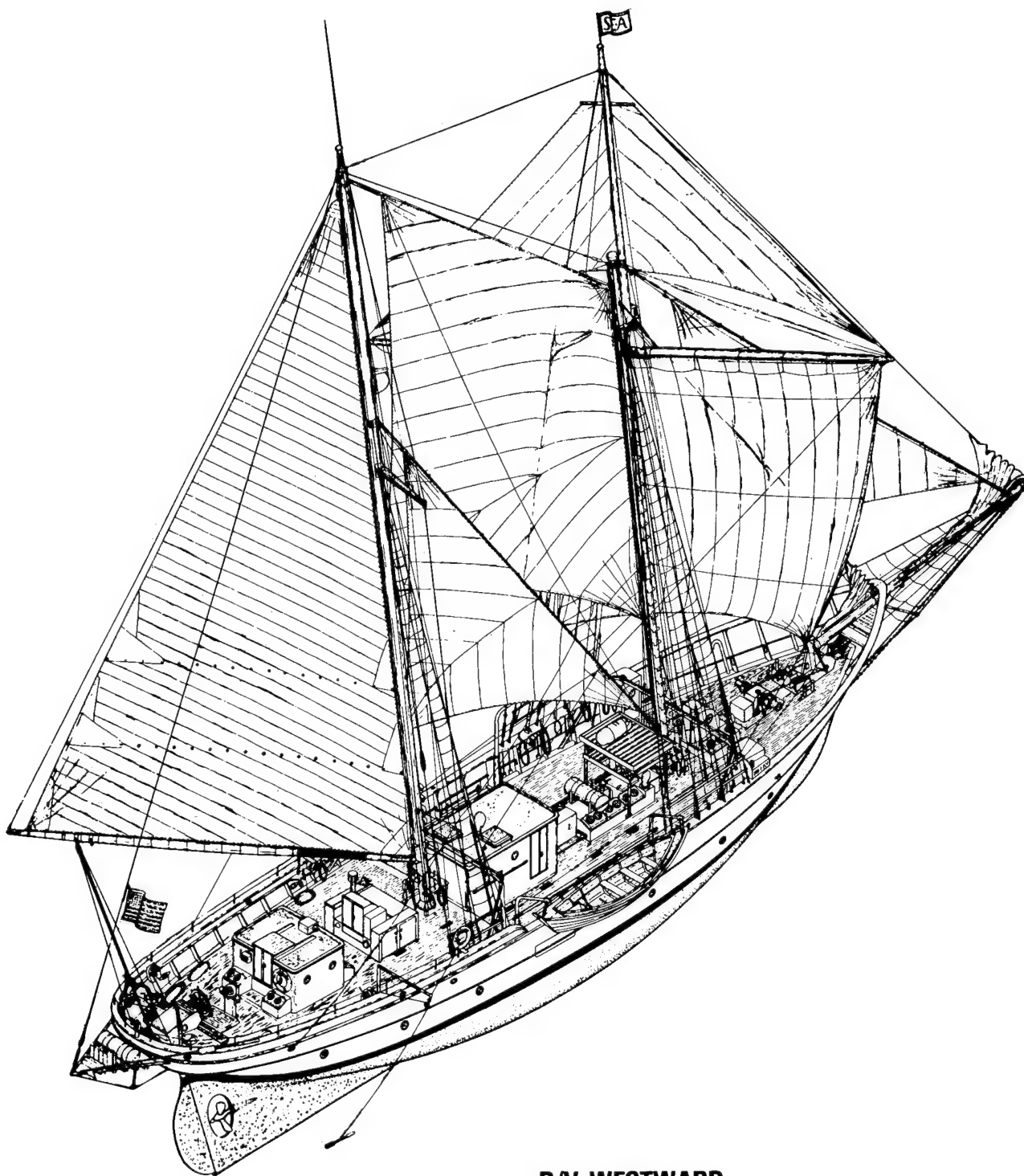
LENGTH: 125.0 FEET  
MAX BEAM: 21.5 FEET  
DISPLACEMENT: 250 TONS  
DRAUGHT: 12.5 FEET  
CRUISE SPEED: 7.0 KNOTS  
RANGE: - NAUTICAL MILES

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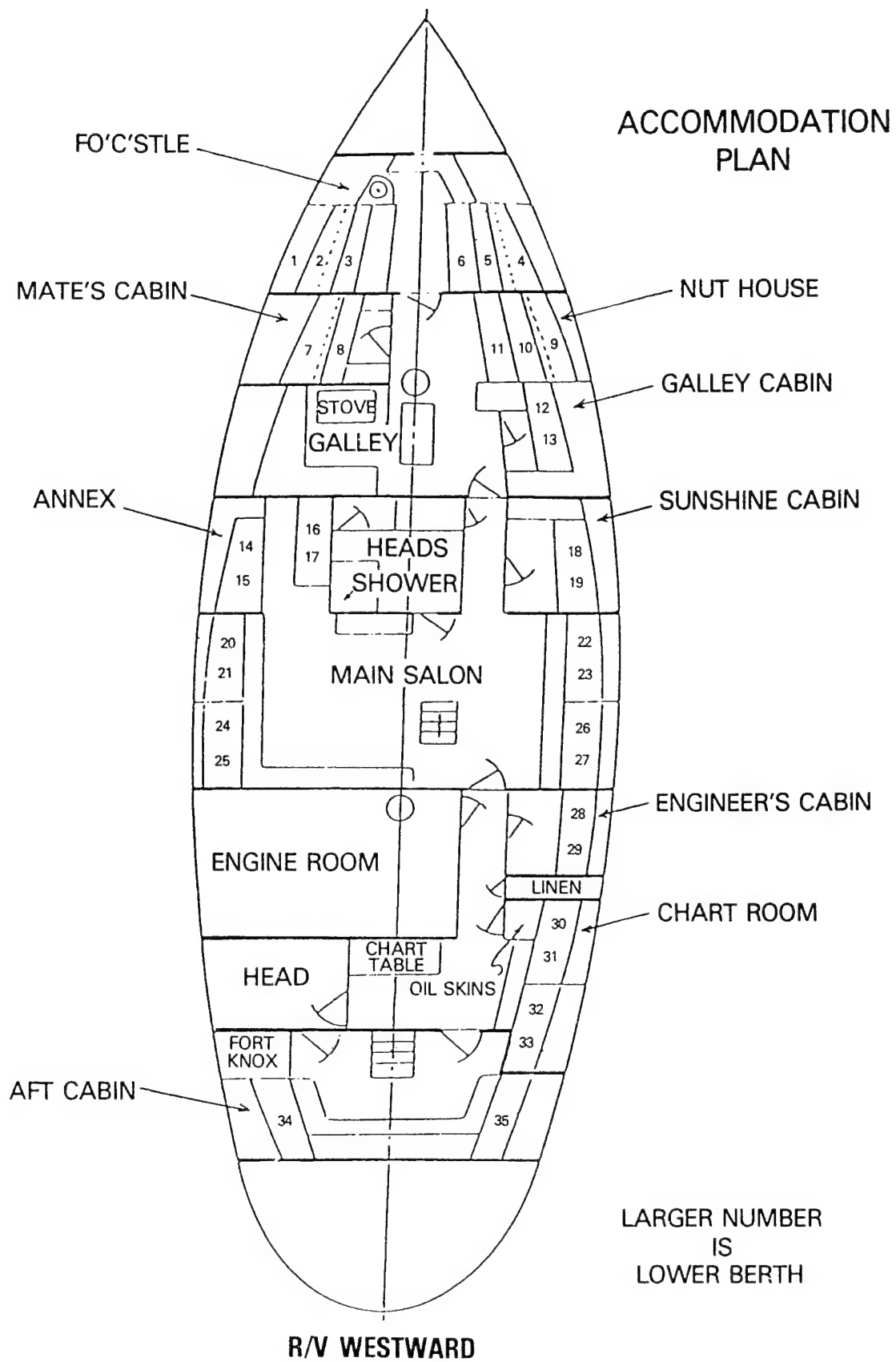




R/V WESTWARD



**R/V WESTWARD**



# OTHER UNIVERSITY OR INSTITUTIONAL VESSELS

(OVER 50 FT. LOA)

The following is a listing of other university research vessels registered with the University - National Oceanographic Laboratory System (UNOLS) Office and for which schedules have not been received or are not routinely prepared in advance. These vessels take regular cruises in local waters and, unless otherwise indicated, the nature of the work is general oceanography, coastal research and student training.

Most of these vessels are able to accommodate cooperative projects within the capability of the vessel either on a not-to-interfere or on a reimburseable basis. Further information should be obtained from the listed contact. Corrections and additions should be submitted to the UNOLS Office.

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Southern Maine Vocational Technical Institute Department of Marine Science and Technology Fort Road South Portland, ME 04106	AQUALAB III	146	New England Coast	Brian Hathaway (207)799-7303
Massachusetts Institute of Technology Sea Grant College Program 292 Main Street Bldg. E-28, Rm. 366 Cambridge, MA 02142	EDGERTON	65	New England Coast	Arthur Clifton (617)253-7136
Southern Massachusetts University North Dartmouth, MA 02747	CORSAIR	65	Cape Cod Waters	Jefferson Turner (617)999-8229
University of Connecticut Marine Science Institute SE Branch, Avery Point Groton, CN 06340	UCONN	65	Southern New England Coast Long Island Sound	Sung Feng (203)446-1020 Ext: 211

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Cape Fear Technical Institute 411 North Front Street Wilmington, NC 28401	NORTH STAR	73	Atlantic Coast	Arthur W. Jordan (919)343-0481 Ext: 244
	DAN MOORE	85	Atlantic Coast	CAPT S. J. Beuth (919)343-0481
Florida Institute of Technology Melbourne, FL 32901	TURSIOPS DELPHINUS	65 63	Savannah Bight Florida, Bahamas	Jack Morton (305)768-8096 Ext: 302
Nova University Ocean Sciences Center 8000 North Ocean Drive Dania, FL 33004	ENDLESS SEAS	67	Florida Coast Waters	Jan Witte (305)475-8330 Ext: 288
Florida Institute for Oceanography 830 First Street, S. St. Petersburg, FL 33701	BELLOWS SUNCOASTER	65 110	Florida Coast Gulf of Mexico Caribbean	William W. Behrens (813)893-9100
Marine Environmental Sciences Consortium Dauphin Island Sea Laboratory P.O. Box 386 Dauphin Island, AL 36528	G.A. ROUNSEFELL	65	Gulf of Mexico	Fred Rees (205)861-2141
University of Puerto Rico Department of Marine Sciences Mayaguez, Puerto Rico 00708	ISLA MAGUEYES	71	South Coast of Puerto Rico & Mona Passage	Mark Reigle (809)832-3432
Gulf Coast Research Laboratory P.O. Box Drawer AG Ocean Springs, MS 39565	GULF RESEARCHER	65	Gulf of Mexico	Harold D. Howse (601)875-2244
Marine Sciences Research Center State University of New York Stony Brook, NY 11794-5000	ONRUST	60	New York Bight Long Island Sound Hudson River	William M. Wise (516)632-8656

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Hobart & William Smith Colleges Geneva, NY 14456	HOBART & WILLIAM SMITH EXPLORER	65	Finger Lakes Great Lakes	Richard Wilkens (315)789-5500 Ext: 213
State University College at Buffalo 1300 Elmwood Avenue Buffalo, NY 14222	C.A. DAMBACH	65	Great Lakes	Robert A. Sweeney (716)878-5422
University of Wisconsin- Milwaukee Center for Great Lakes Studies Milwaukee, WI 53201	NEESKAY	65	Great Lakes	Donald F. Mraz (414)224-3007
University of Maryland Chesapeake Biol. Lab Solomons, MD 20688	AQUARIUS ORION	65 62	Chesapeake Bay	Elgin A. Dunnington (301)326-4281
Virginia Institute of Marine Science Gloucester Point, VA 23062	RETRIEVER	115	Mid-Atlantic Coast Chesapeake Bay	John M. Zeigler (804)642-2111
The Marine Science Consortium Inc. P.O. Box 16 Wallops Island, VA 23337	DELAWARE BAY	50	NJ to VA coast to 50 miles offshore	Robert W. Hinds (804)824-5636
Occidental College Department of Biology 1600 Campus Road Los Angeles, CA 90041	VANTUNA	85	California Coast	John S. Stephens (213)259-2675
NOAA National Undersea Research Program University of North Carolina at Wilmington 601 South College Wilmington, NC 28403	SEAHAWK	80	Atlantic Coast New Enland to Georgia	Frank L. Chapman (919)762-7615

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Harbor Branch Oceanographic Inst. 5600 Old Dixie Highway Fort Pierce, FL 34946	SEA DIVER	98	Florida Coast	Tim Askew (407)465-2400

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: ATHENA  
NAME: THOMAS BROGLIO  
OFFICE: ATHENA RESEARCH SHIP SYSTEM  
ORGANIZATION: NAVAL SURFACE WARFARE CENTER  
ADDRESS: CODE 540.3  
CITY-STATE: BETHESDA, MD 20084-5000  
COMMERCIAL AREA CODE: 301  
PHONE: 227-2005  
FAX: 227-4615

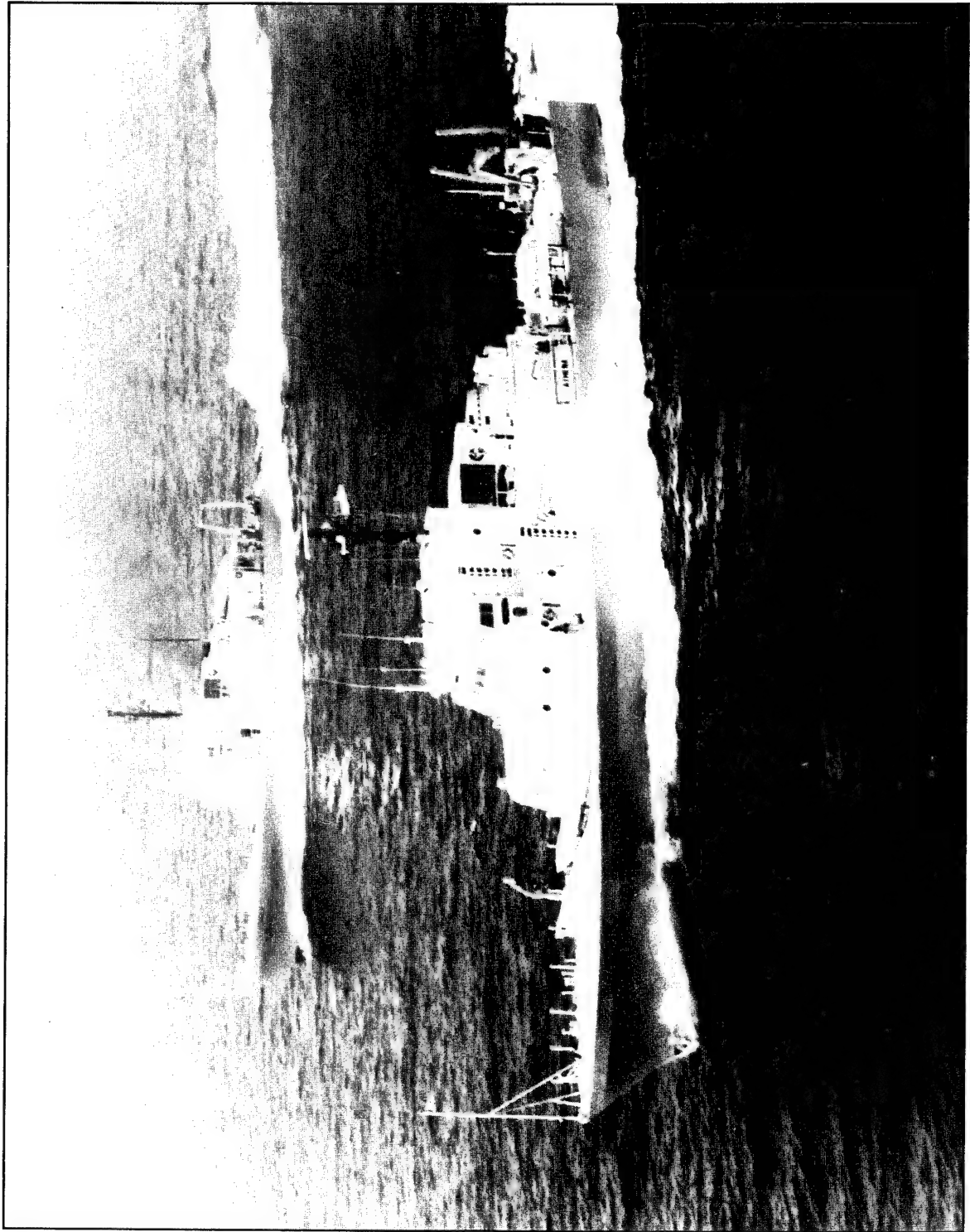
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SHIP DIMENSIONS

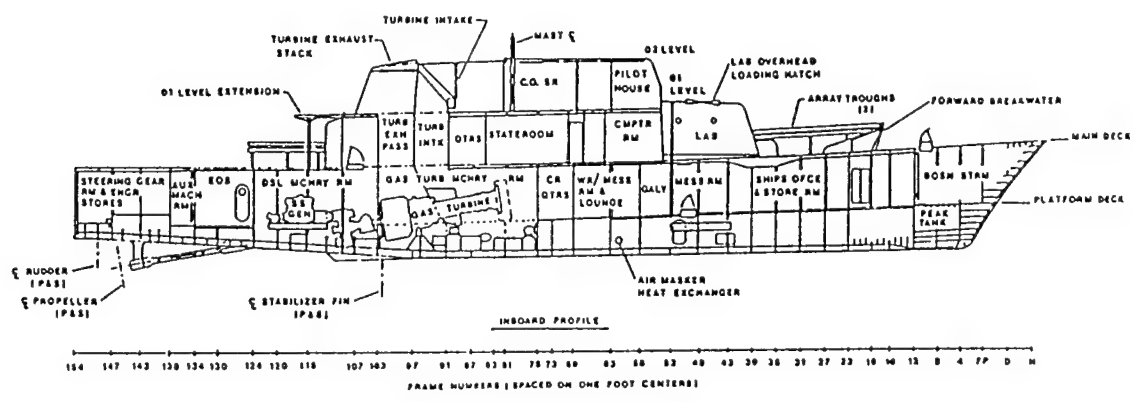
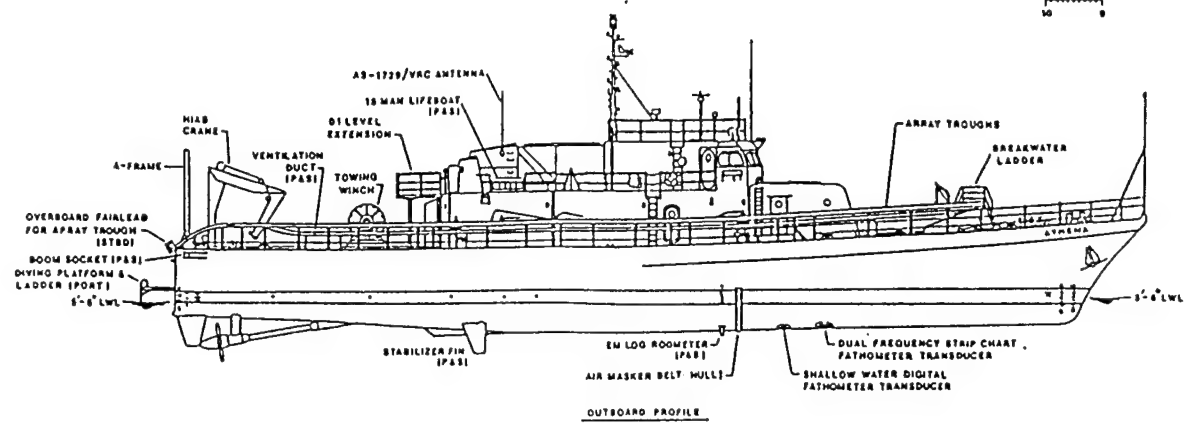
LENGTH: 164.5 FEET  
MAX BEAM: 24.0 FEET  
DISPLACEMENT: 240 TONS  
DRAUGHT: 10.5 FEET  
CRUISE SPEED: 13.0 KNOTS  
RANGE: 2700 NAUTICAL MILES  
TOP SPEED: 35+ KNOTS  
ACCOMMODATIONS: 15 SCIENTIFIC PERSONNEL

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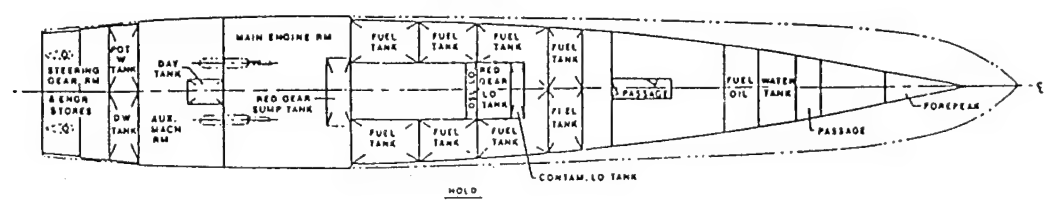
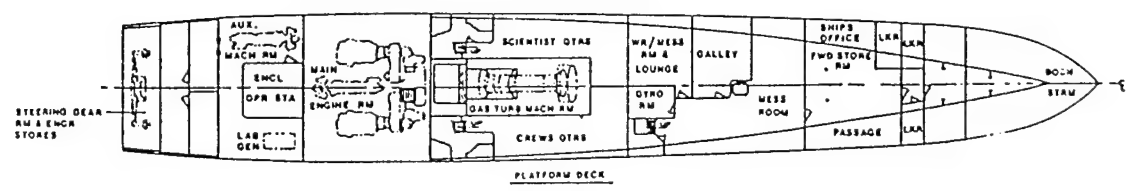
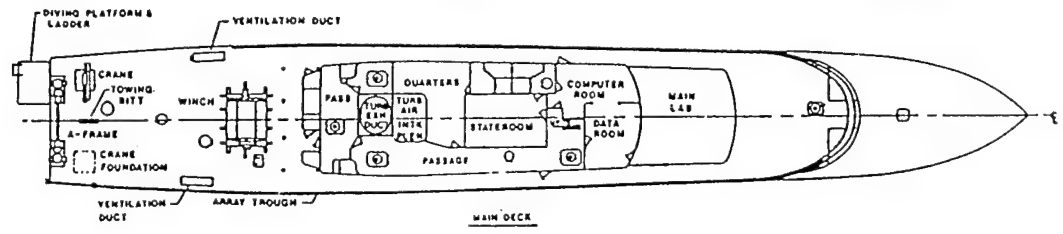
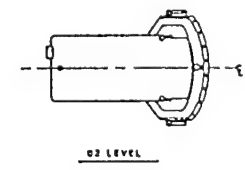
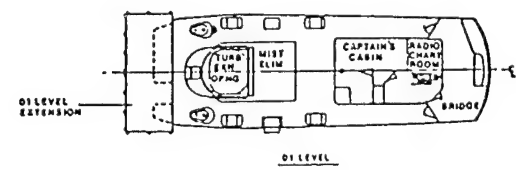




R/V ATHENA



154 147 143 138 134 130 124 120 116 107 103 97 91 87 83 81 75 73 69 63 58 53 48 43 39 35 31 27 23 19 15 11 7 4 PP D N  
FRAME NUMBERS (SPACED ON ONE FOOT CENTERES)



# R/V ATHENA Profiles and Arrangement of Decks

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POINT OF CONTACT INFORMATION (SCHEDULES)

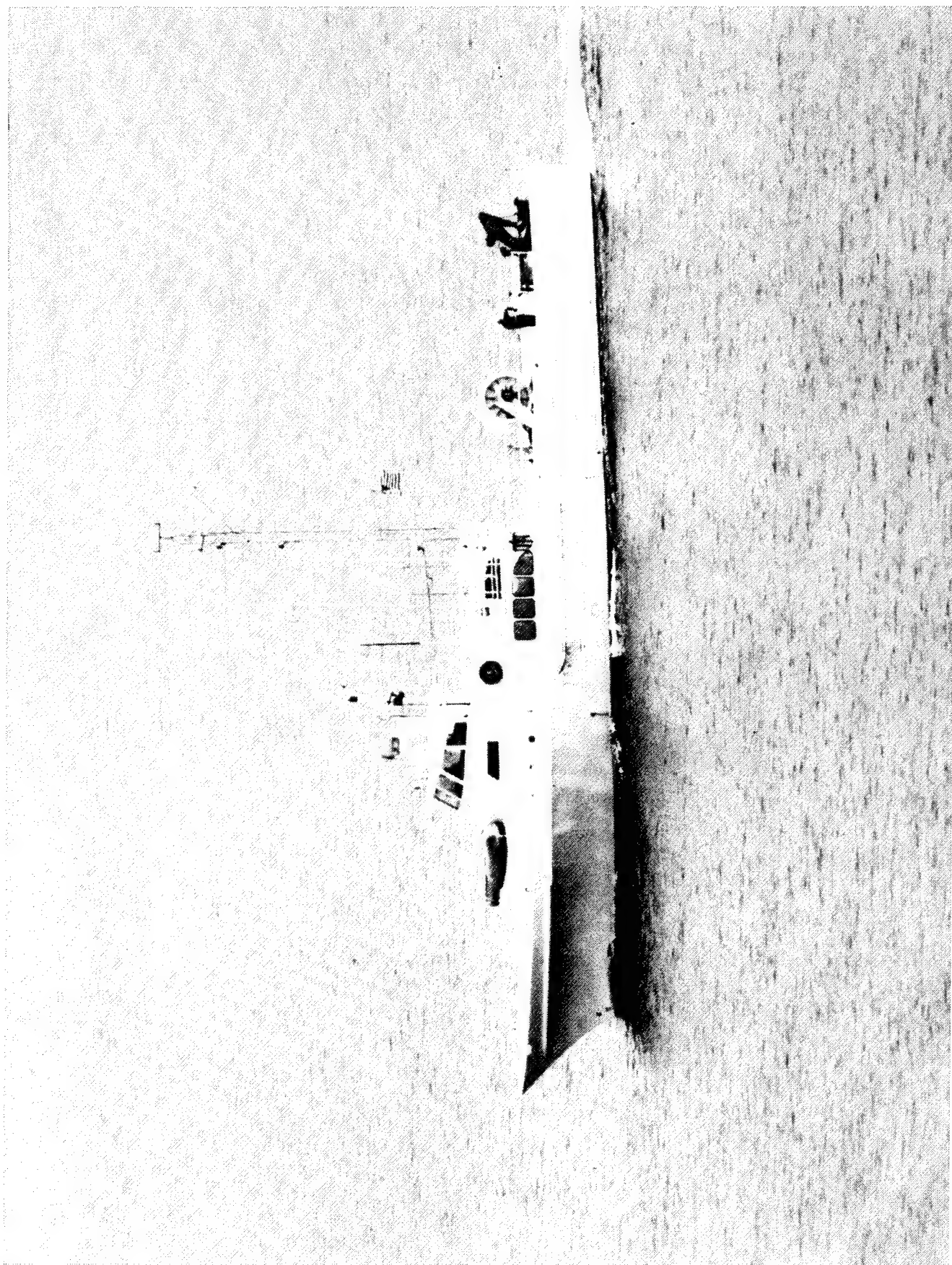
SHIP NAME: ERLINE  
NAME: COMMANDER  
OFFICE:  
ORGANIZATION: NAVAL UNDERWATER SYSTEMS CENTER  
ADDRESS:  
CITY-STATE: NEWPORT, RI 02841-5047  
COMMERCIAL AREA CODE: 401  
PHONE: 841-2311

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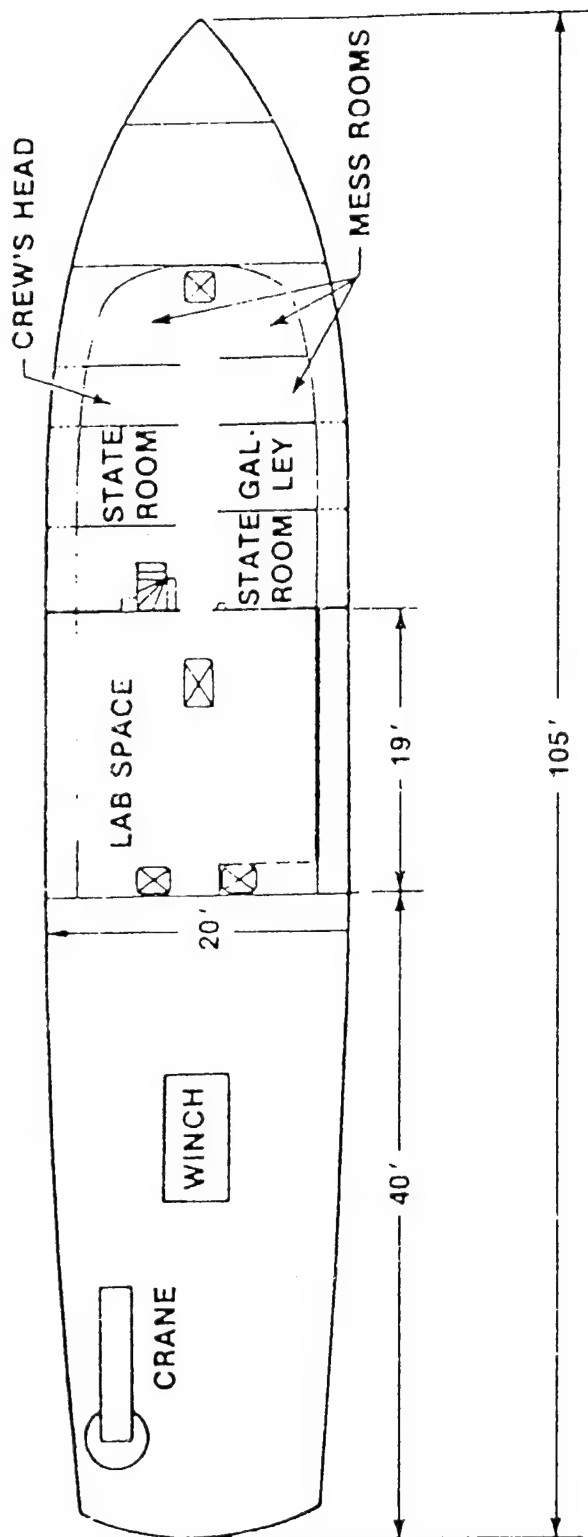
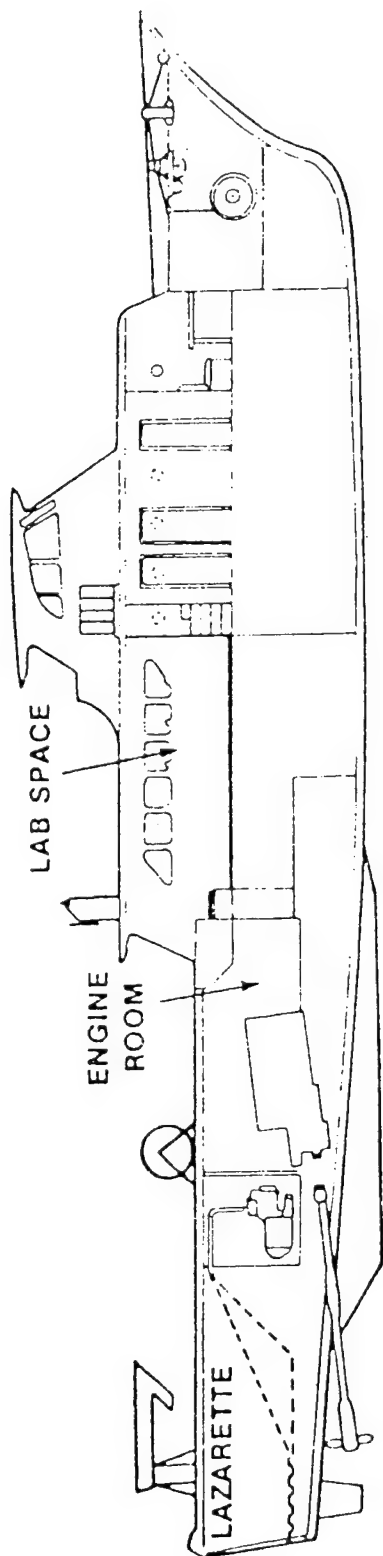
SHIP DIMENSIONS

LENGTH: 105.0 FEET  
MAX BEAM: 20.7 FEET  
DISPLACEMENT: 96 TONS  
DRAUGHT: 5.9 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 1200 NAUTICAL MILES

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R/V ERLINE



R/V ERLINE

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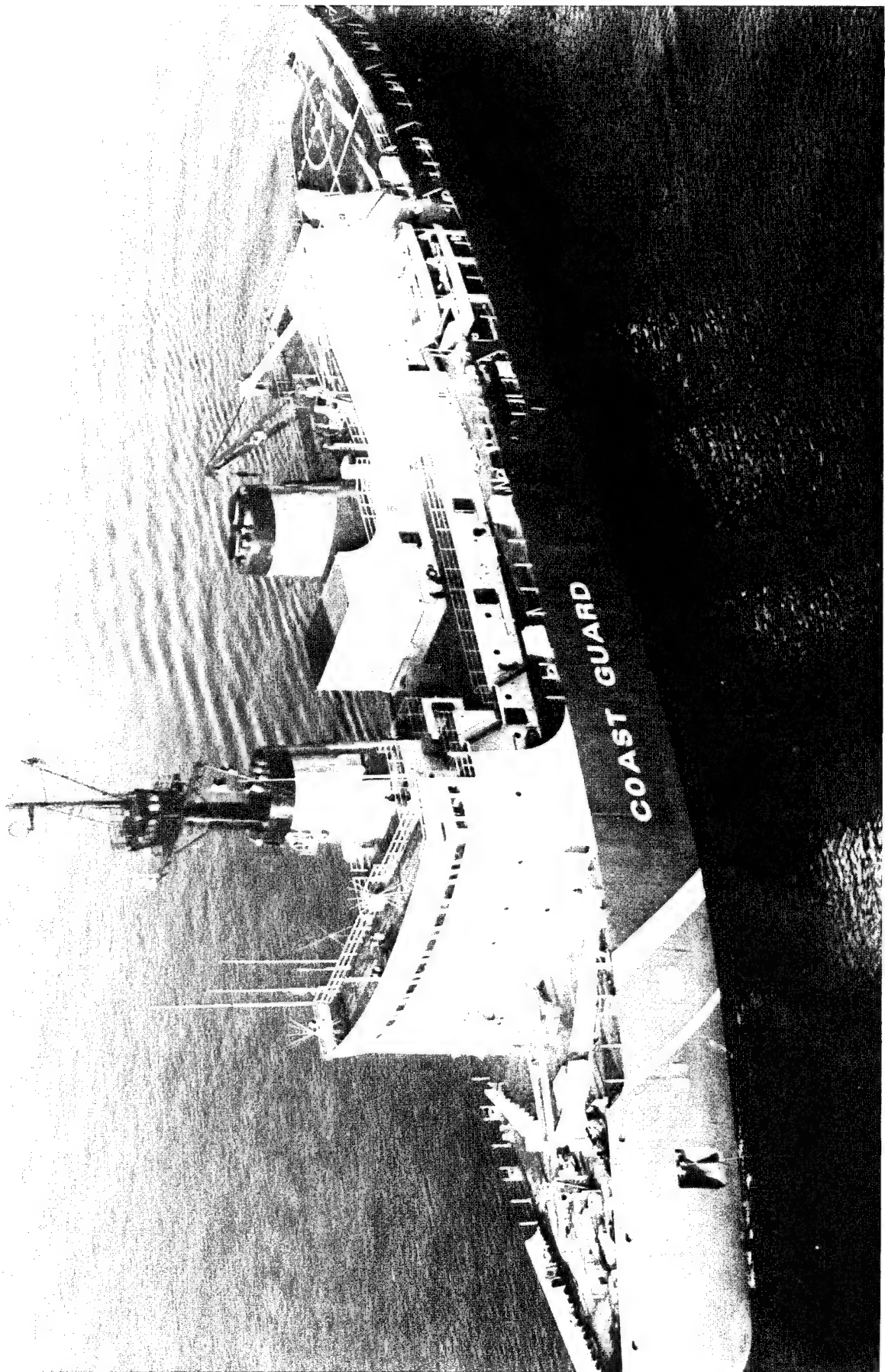
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: USCGC POLAR SEA  
NAME: LCDR WAYNE ROBERTS  
OFFICE: COMMANDANT (G-NIO)  
ORGANIZATION: U.S. COAST GUARD  
ADDRESS: 2100 SECOND STREET, SW  
CITY-STATE: WASHINGTON DC 20593-0001  
COMMERCIAL AREA CODE: 202  
PHONE: 267-1460  
-----

SHIP DIMENSIONS

LENGTH: 399.0 FEET  
MAX BEAM: 83.5 FEET  
DISPLACEMENT: 10863 TONS  
DRAUGHT: 28.0 FEET  
CRUISE SPEED: 13.0 KNOTS  
RANGE: 28275 NAUTICAL MILES

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USCGC POLAR SEA



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POINT OF CONTACT INFORMATION (SCHEDULES)

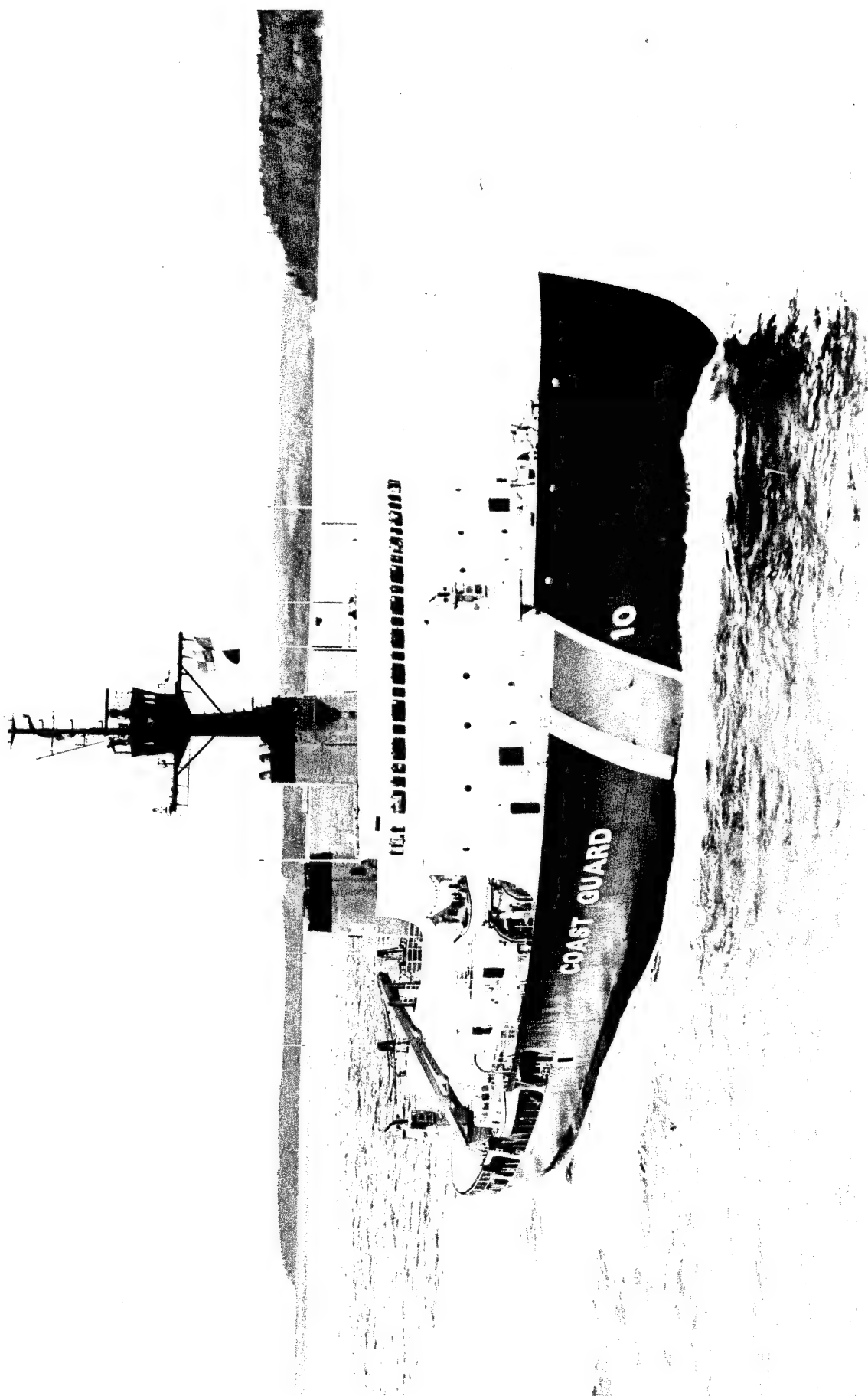
SHIP NAME: USCGC POLAR STAR  
NAME: LCDR WAYNE ROBERTS  
OFFICE: COMMANDANT (G-NIO)  
ORGANIZATION: U.S. COAST GUARD  
ADDRESS: 2100 SECOND STREET, SW  
CITY-STATE: WASHINGTON DC 20593-0001  
COMMERCIAL AREA CODE: 202  
PHONE: 267-1460  
-----

SHIP DIMENSIONS

LENGTH: 399.0 FEET  
MAX BEAM: 83.5 FEET  
DISPLACEMENT: 10863 TONS  
DRAUGHT: 28.0 FEET  
CRUISE SPEED: 13.0 KNOTS  
RANGE: 28275 NAUTICAL MILES

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USCGC POLAR STAR

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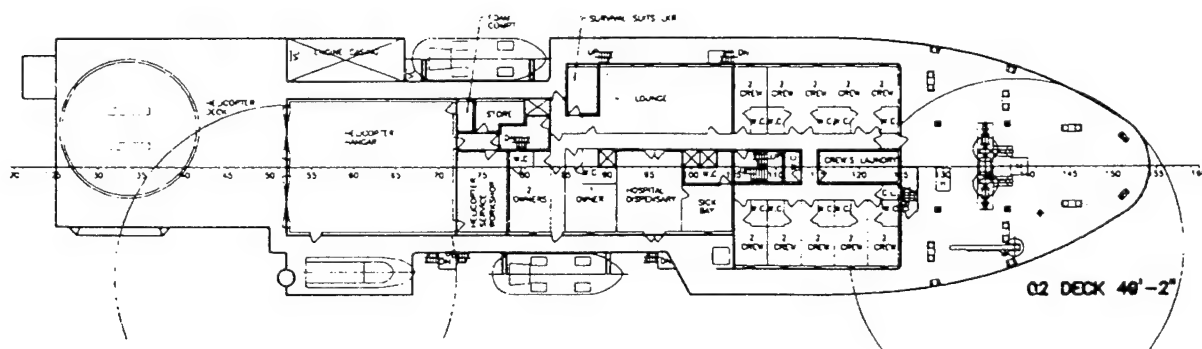
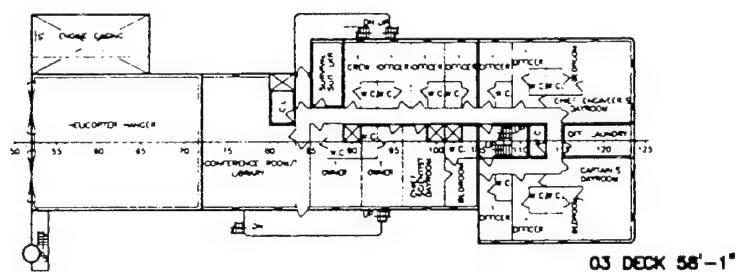
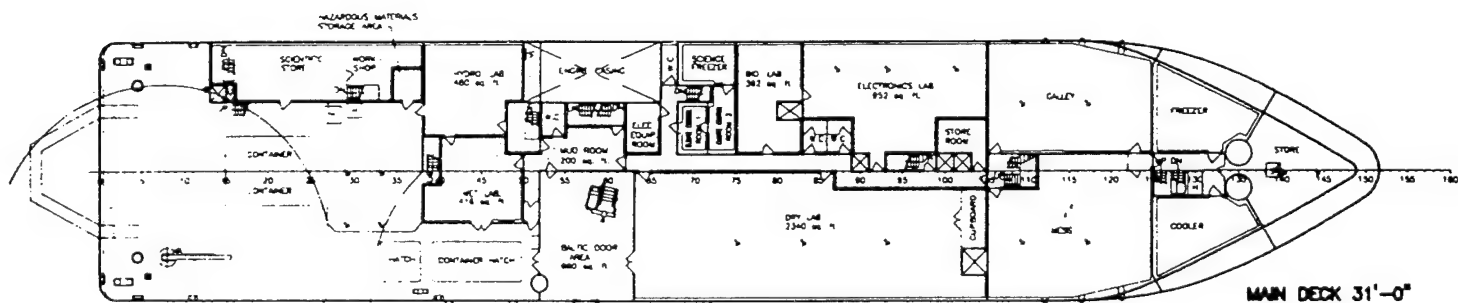
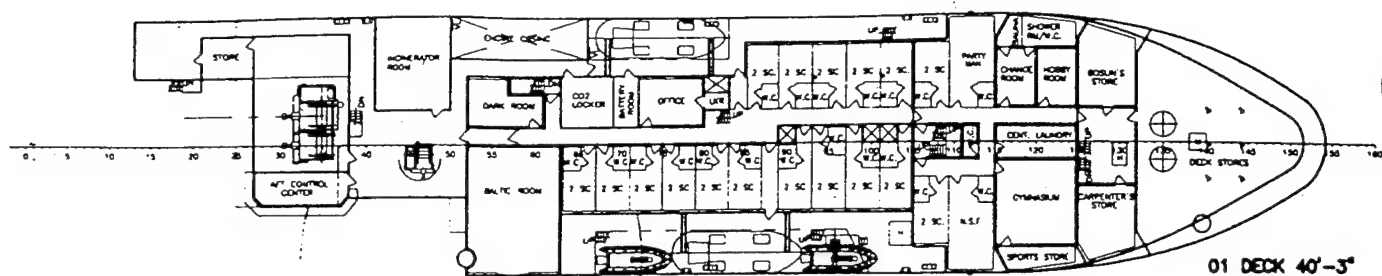
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: NATHANIEL B. PALMER  
NAME: ALEXANDER L. SUTHERLAND  
OFFICE: DIVISION OF POLAR PROGRAMS  
ORGANIZATION: NATIONAL SCIENCE FOUNDATION  
ADDRESS: 1800 G ST. NW  
CITY-STATE: WASHINGTON DC 20550  
COMMERCIAL AREA CODE: 202  
PHONE: 357-7808  
-----

SHIP DIMENSIONS

LENGTH: 308.5 FEET  
MAX BEAM: 60.0 FEET  
DISPLACEMENT: 6500 TONS  
DRAUGHT: 21.75 FEET  
CRUISE SPEED:  
RANGE:

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R/V NATHANIEL B. PALMER

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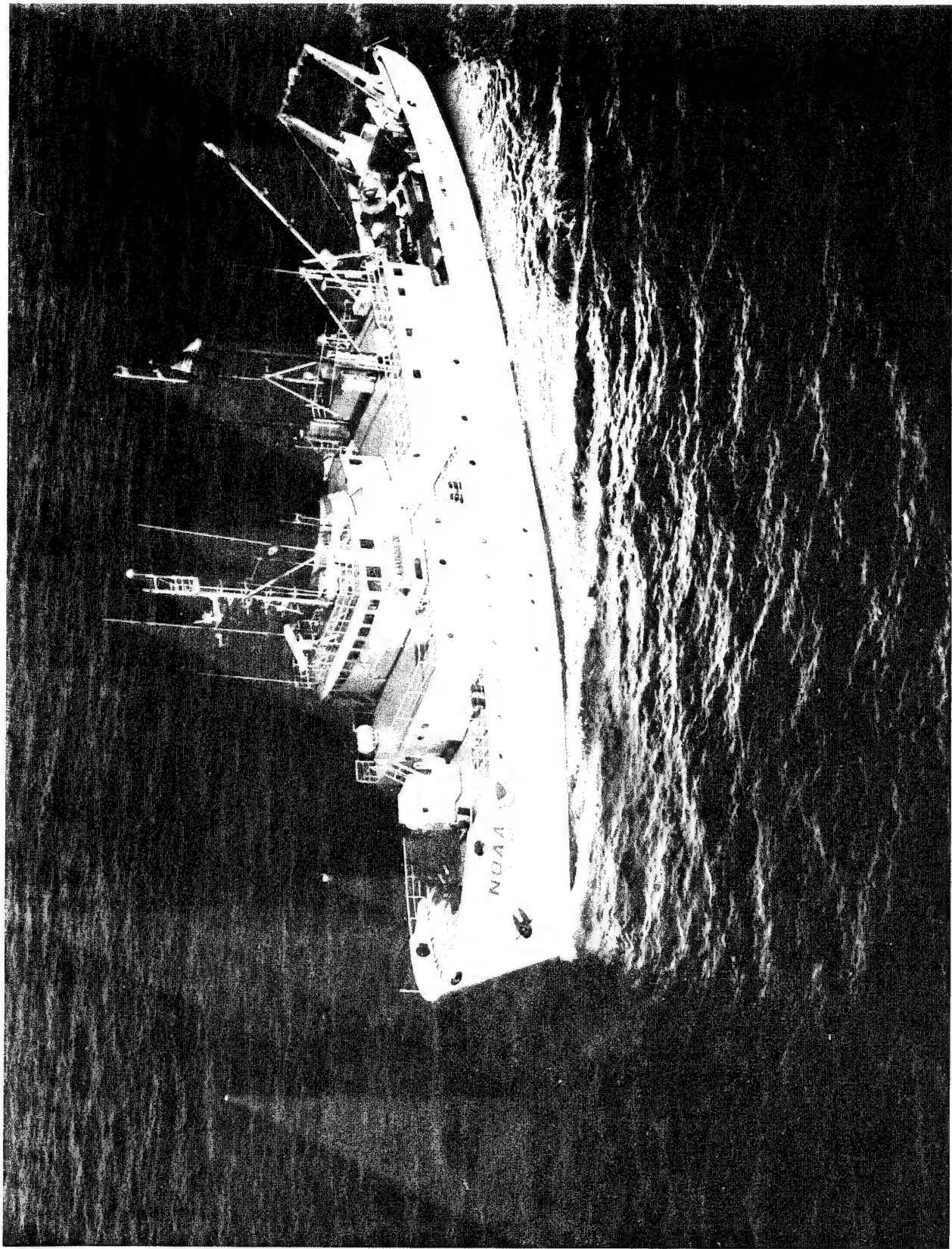
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: ALBATROSS IV  
NAME: CDR ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 187.0 FEET  
MAX BEAM: 33.0 FEET  
DISPLACEMENT: 1089 TONS  
DRAUGHT: 16.2 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 3933 NAUTICAL MILES

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NOAA SHIP ALBATROSS IV

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MALCOLM BALDRIDGE  
NAME: CDR ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 278.3 FEET  
MAX BEAM: 51.0 FEET  
DISPLACEMENT: 2963 TONS  
DRAUGHT: 18.3 FEET  
CRUISE SPEED: 13.0 KNOTS  
RANGE: 11245 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

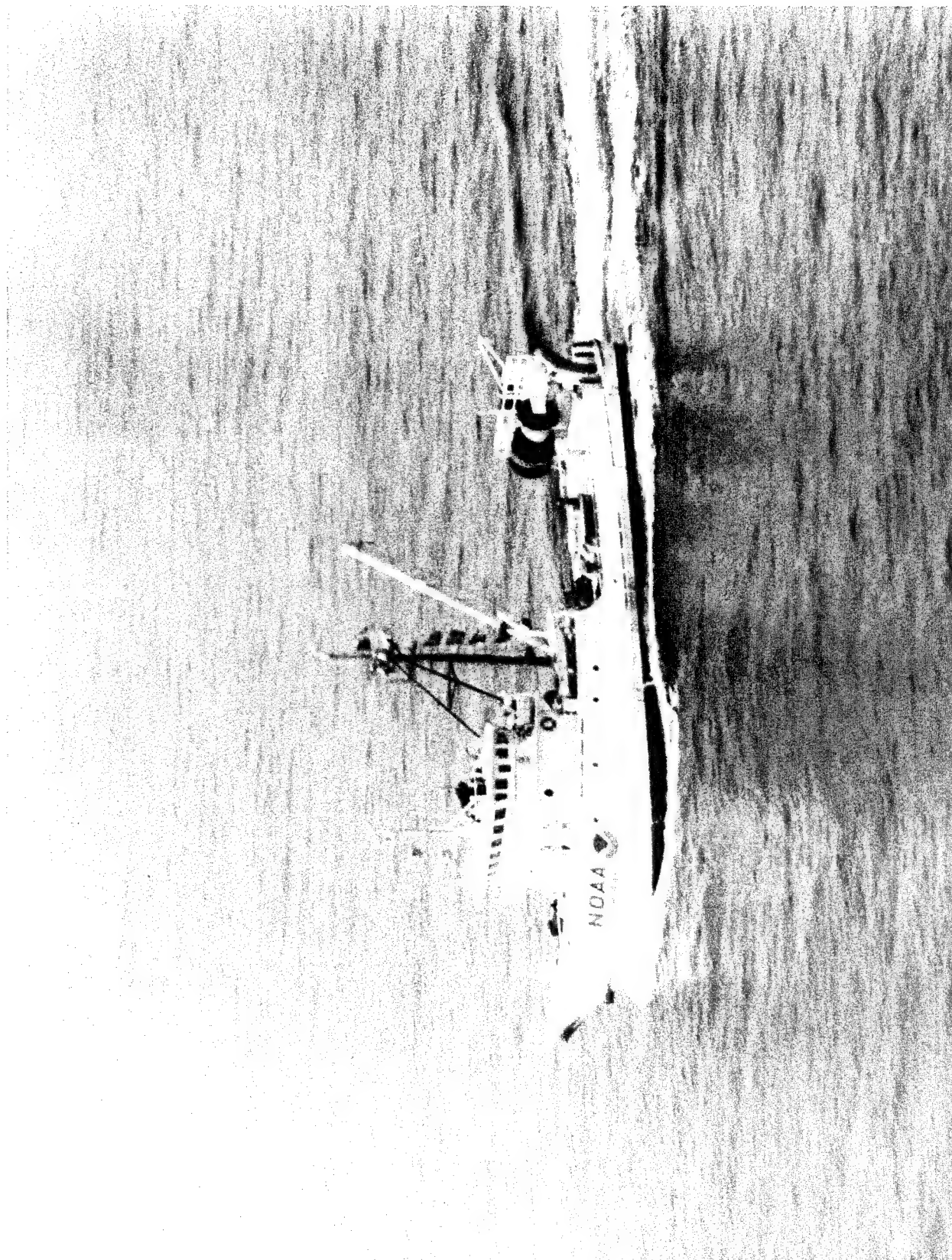
SHIP NAME: CHAPMAN  
NAME: CDR ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 127.0 FEET  
MAX BEAM: 29.6 FEET  
DISPLACEMENT: 520 TONS  
DRAUGHT: 14.0 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 3024 NAUTICAL MILES

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NOAA SHIP CHAPMAN



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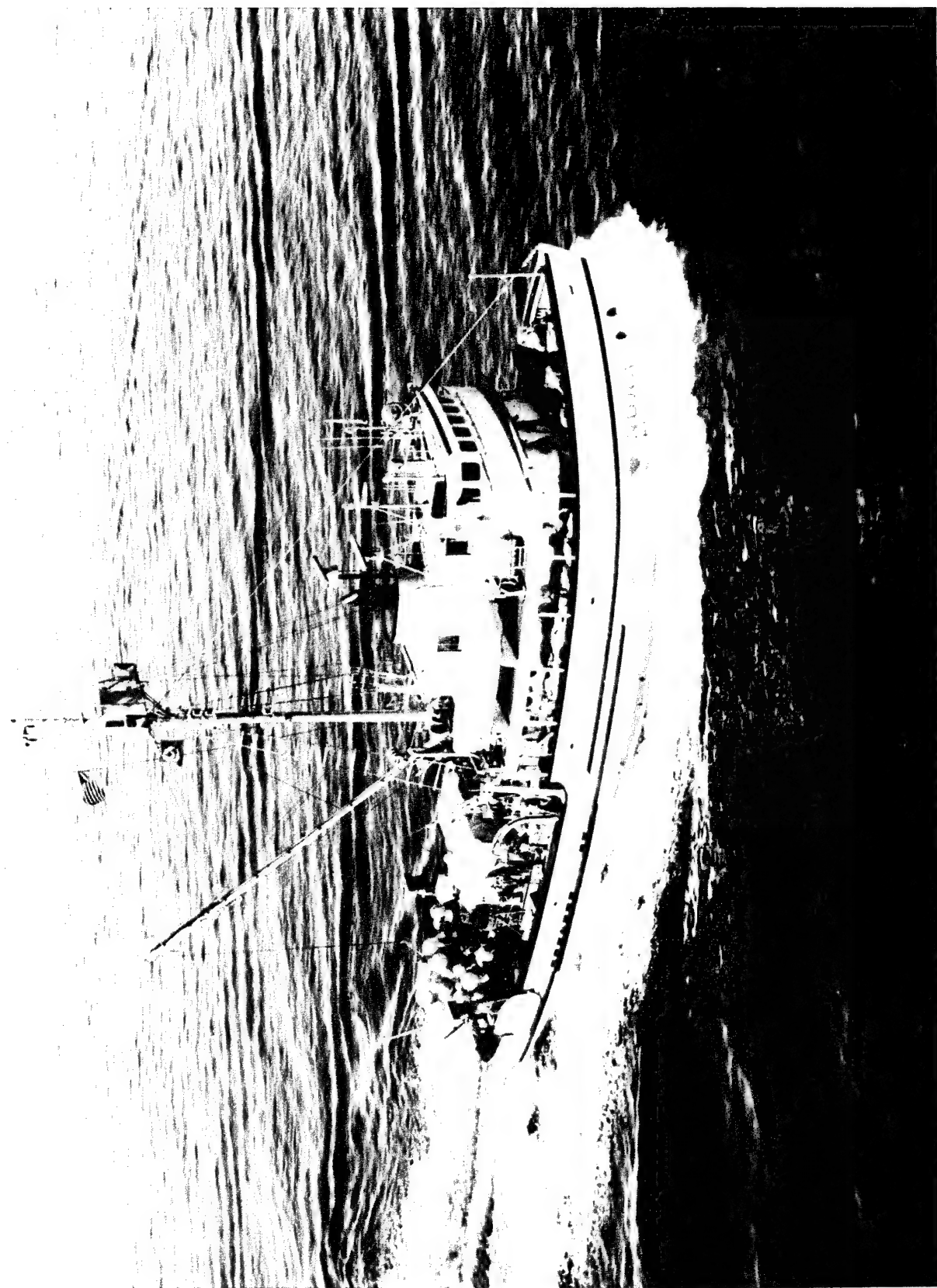
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: JOHN N. COBB  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
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SHIP DIMENSIONS

LENGTH: 93.0 FEET  
MAX BEAM: 26.0 FEET  
DISPLACEMENT: 250 TONS  
DRAUGHT: 11.0 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 3505 NAUTICAL MILES

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NOAA SHIP JOHN N. COBB

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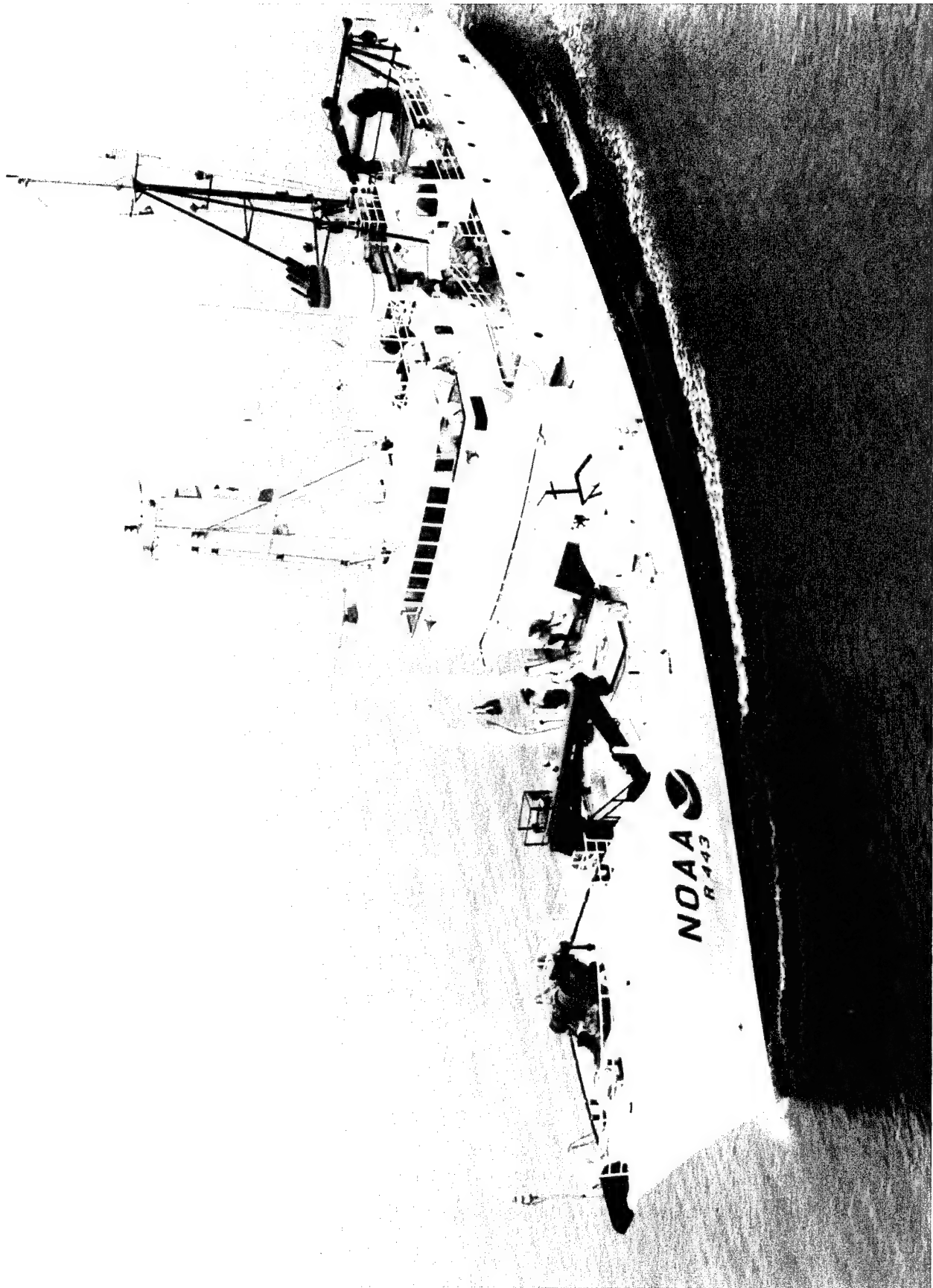
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: TOWNSEND CROMWELL  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 163.0 FEET  
MAX BEAM: 33.0 FEET  
DISPLACEMENT: 652 TONS  
DRAUGHT: 12.7 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 8160 NAUTICAL MILES

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NOAA SHIP TOWNSEND CROMWELL

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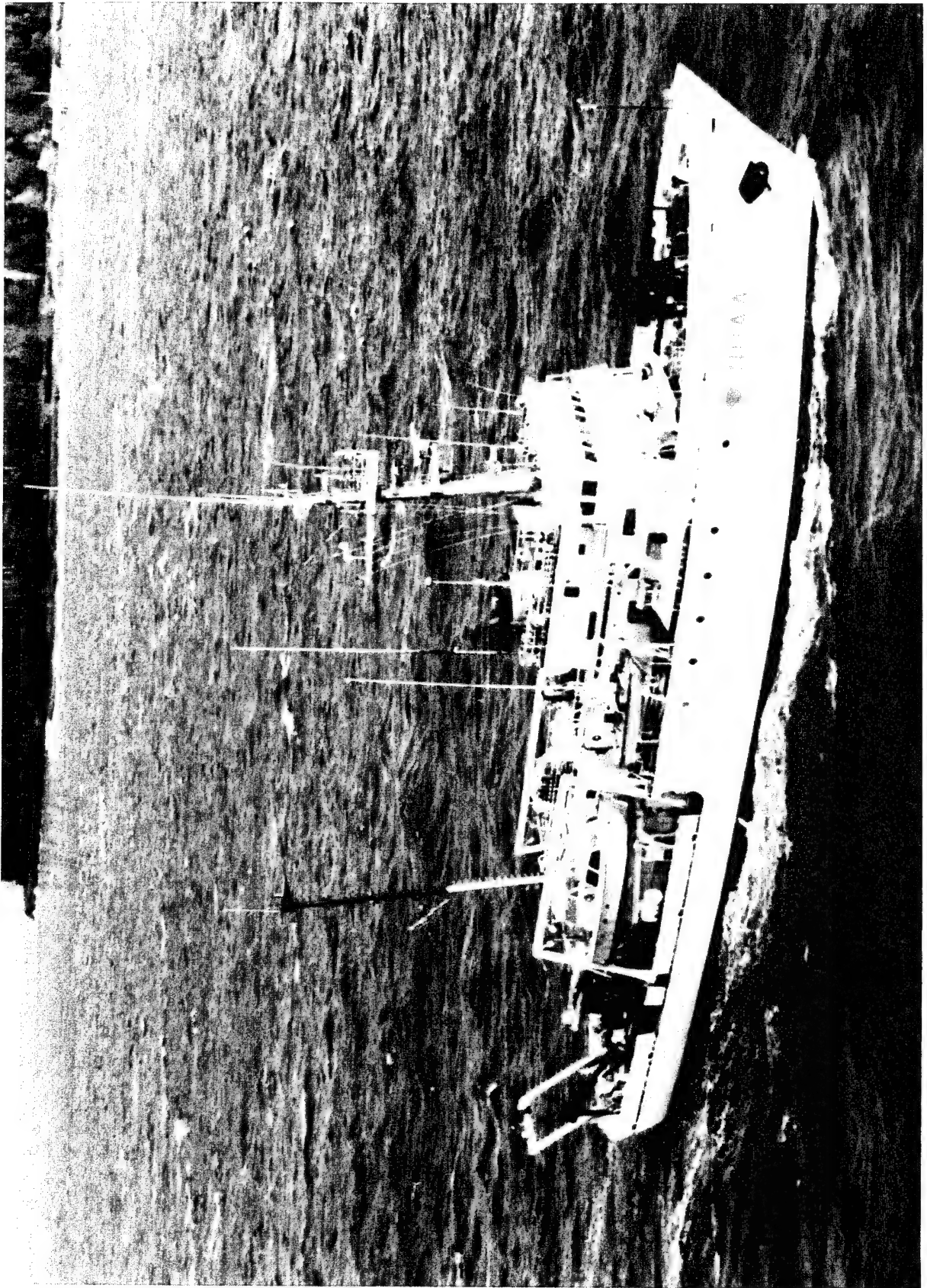
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: DAVIDSON  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 175.0 FEET  
MAX BEAM: 38.0 FEET  
DISPLACEMENT: 995 TONS  
DRAUGHT: 14.0 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 5788 NAUTICAL MILES

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NOAA SHIP DAVIDSON

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POINT OF CONTACT INFORMATION (SCHEDULES)

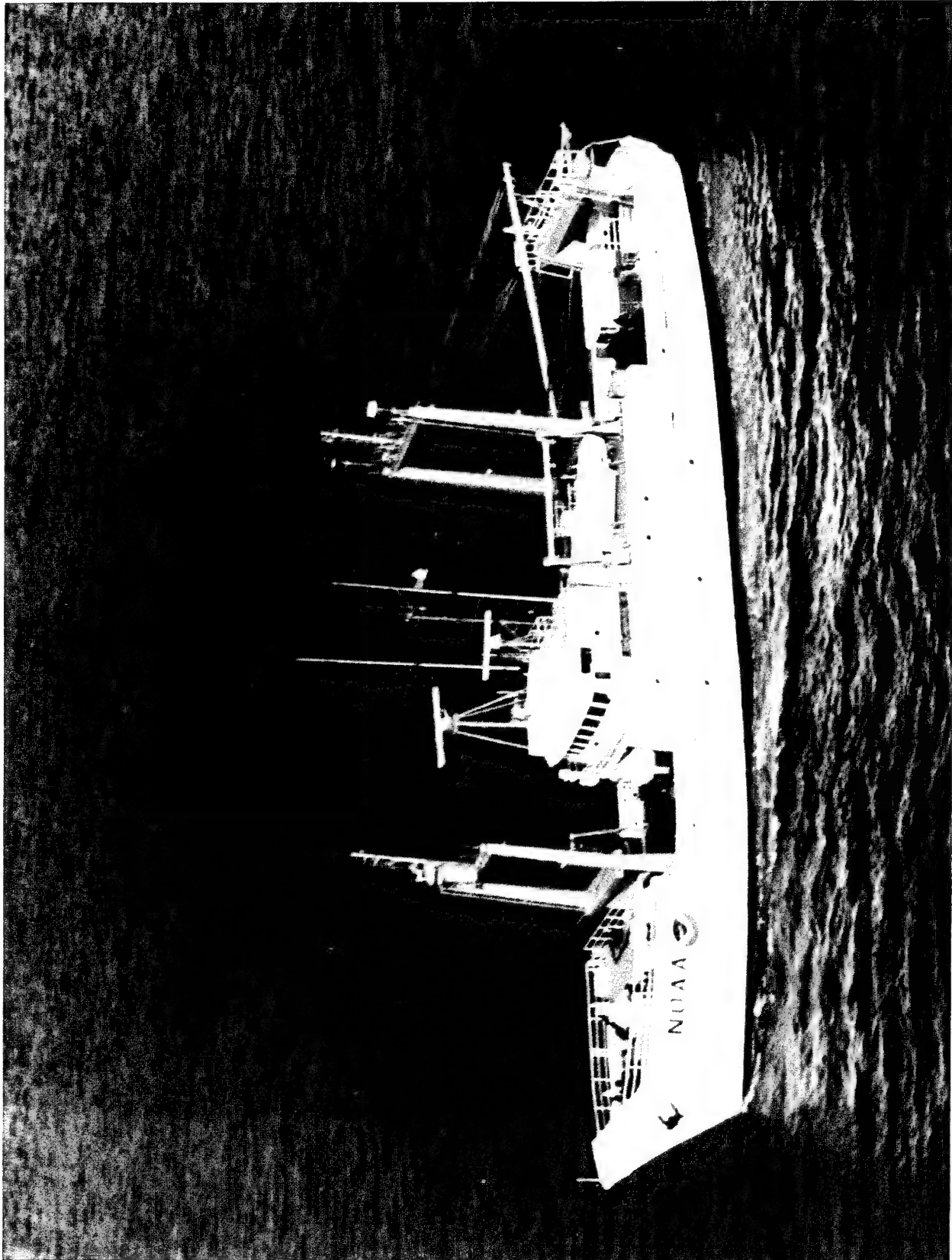
SHIP NAME: DELAWARE II  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 155.0 FEET  
MAX BEAM: 30.1 FEET  
DISPLACEMENT: 758 TONS  
DRAUGHT: 14.7 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 5318 NAUTICAL MILES

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NOAA SHIP DELAWARE II



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POINT OF CONTACT INFORMATION (SCHEDULES)

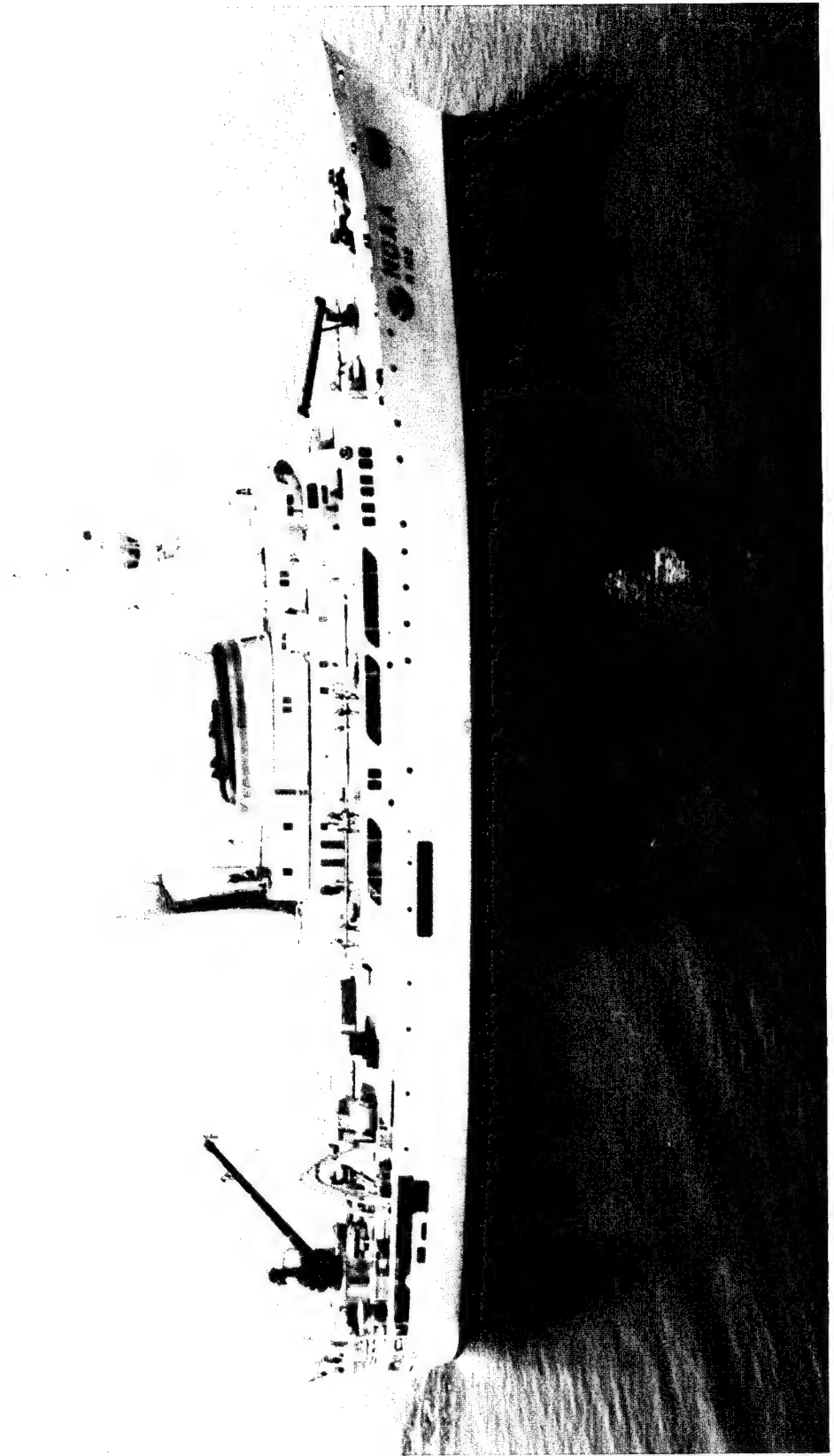
SHIP NAME: DISCOVERER  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548

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SHIP DIMENSIONS

LENGTH: 303.0 FEET  
MAX BEAM: 52.0 FEET  
DISPLACEMENT: 4033 TONS  
DRAUGHT: 19.8 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 9211 NAUTICAL MILES

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NOAA SHIP DISCOVERER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: FAIRWEATHER  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 231.0 FEET  
MAX BEAM: 42.0 FEET  
DISPLACEMENT: 1800 TONS  
DRAUGHT: 14.3 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 5898 NAUTICAL MILES

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NOAA SHIP FAIRWEATHER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: FERREL  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
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SHIP DIMENSIONS

LENGTH: 133.0 FEET  
MAX BEAM: 32.0 FEET  
DISPLACEMENT: 360 TONS  
DRAUGHT: 6.5 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 2678 NAUTICAL MILES

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NOAA SHIP FERREL

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MILLER FREEMAN  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 215.0 FEET  
MAX BEAM: 42.0 FEET  
DISPLACEMENT: 1920 TONS  
DRAUGHT: 20.0 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 12528 NAUTICAL MILES

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NOAA SHIP MILLER FREEMAN



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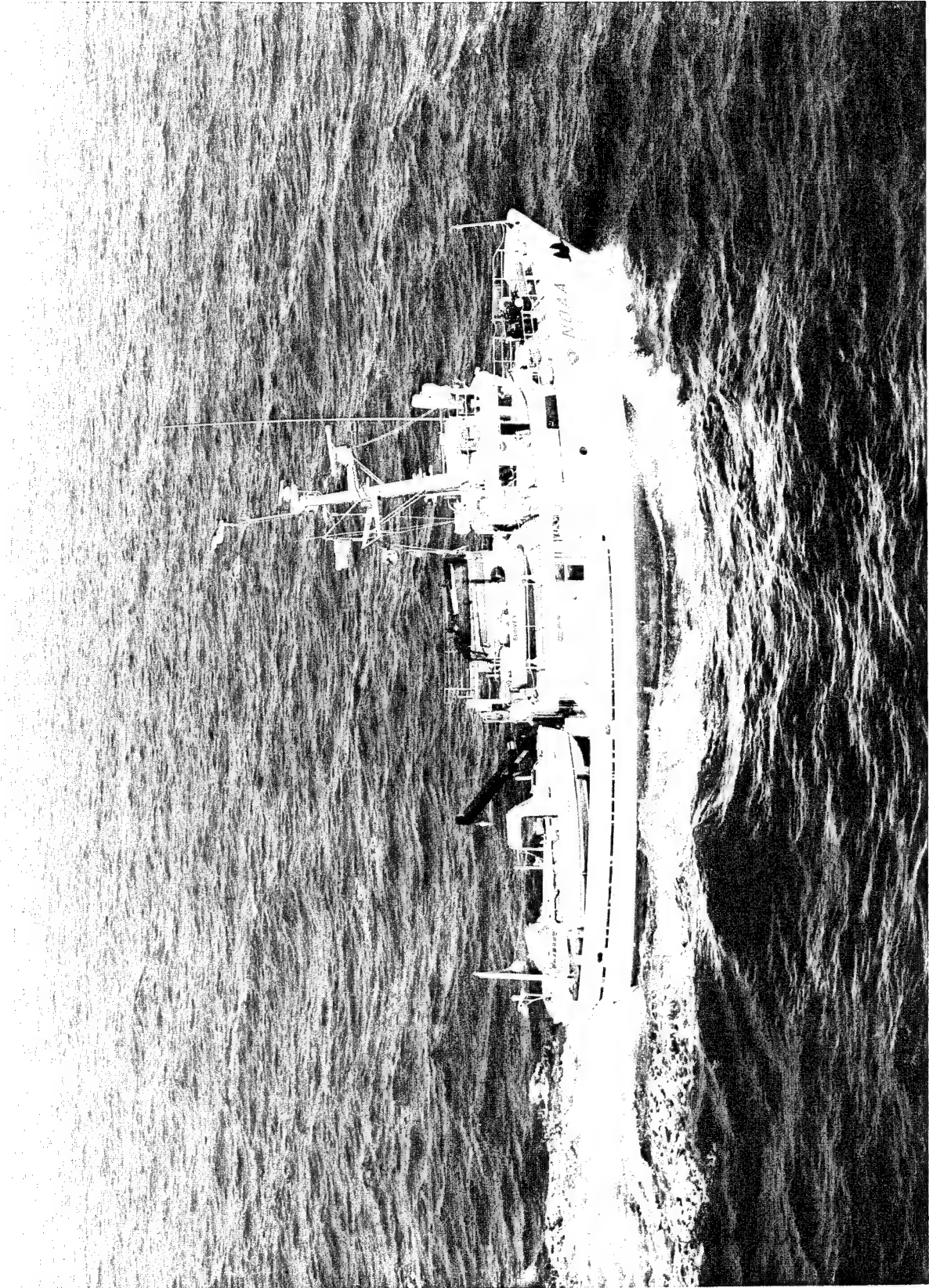
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: HECK  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 90.0 FEET  
MAX BEAM: 22.0 FEET  
DISPLACEMENT: 220 TONS  
DRAUGHT: 7.2 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 770 NAUTICAL MILES

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NOAA SHIP HECK

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: DAVID STARR JORDAN  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 171.0 FEET  
MAX BEAM: 36.6 FEET  
DISPLACEMENT: 993 TONS  
DRAUGHT: 12.5 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 8335 NAUTICAL MILES

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NOAA SHIP DAVID STARR JORDAN

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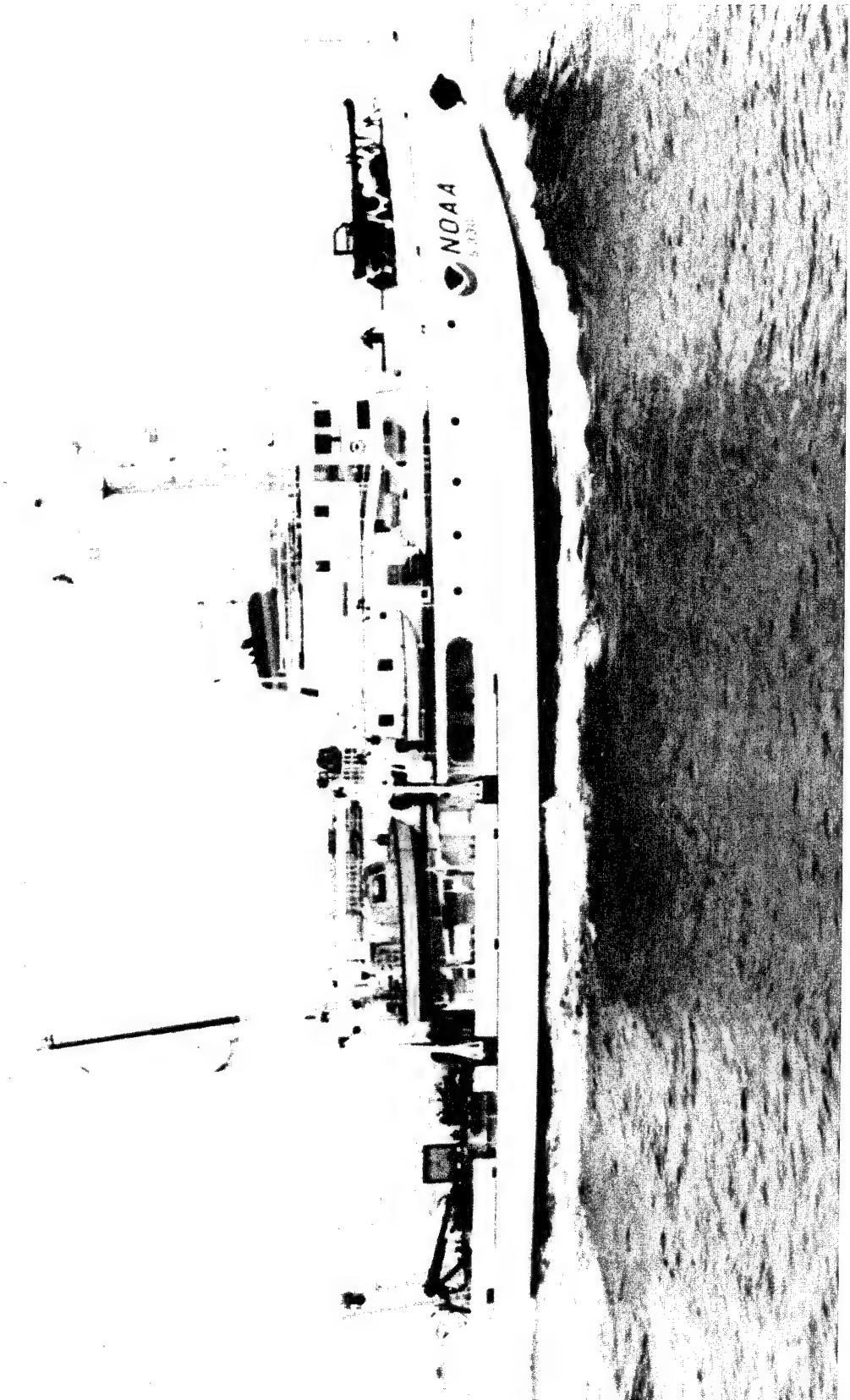
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MCARTHUR  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 175.0 FEET  
MAX BEAM: 38.0 FEET  
DISPLACEMENT: 995 TONS  
DRAUGHT: 12.1 FEET  
CRUISE SPEED: 10.0 KNOTS  
RANGE: 6615 NAUTICAL MILES

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NOAA SHIP McARTHUR

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POINT OF CONTACT INFORMATION (SCHEDULES)

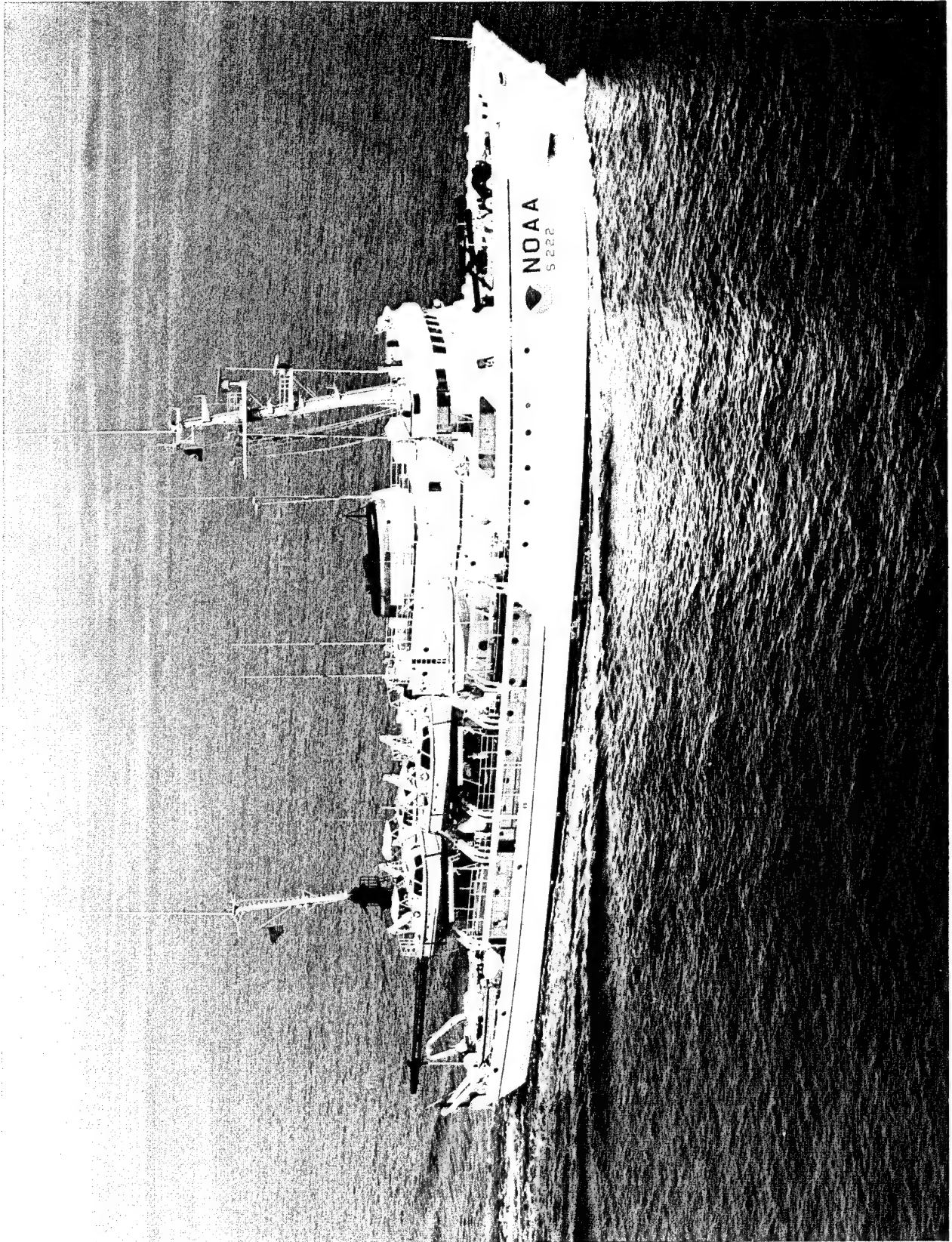
SHIP NAME: MT. MITCHELL  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 231.0 FEET  
MAX BEAM: 42.0 FEET  
DISPLACEMENT: 1800 TONS  
DRAUGHT: 14.3 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 5898 NAUTICAL MILES

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NOAA SHIP MT. MITCHELL



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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MURRE II  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 86.0 FEET  
MAX BEAM: 26.8 FEET  
DISPLACEMENT: 295 TONS  
DRAUGHT: 7.5 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 1620 NAUTICAL MILES

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NOAA SHIP MURRE II

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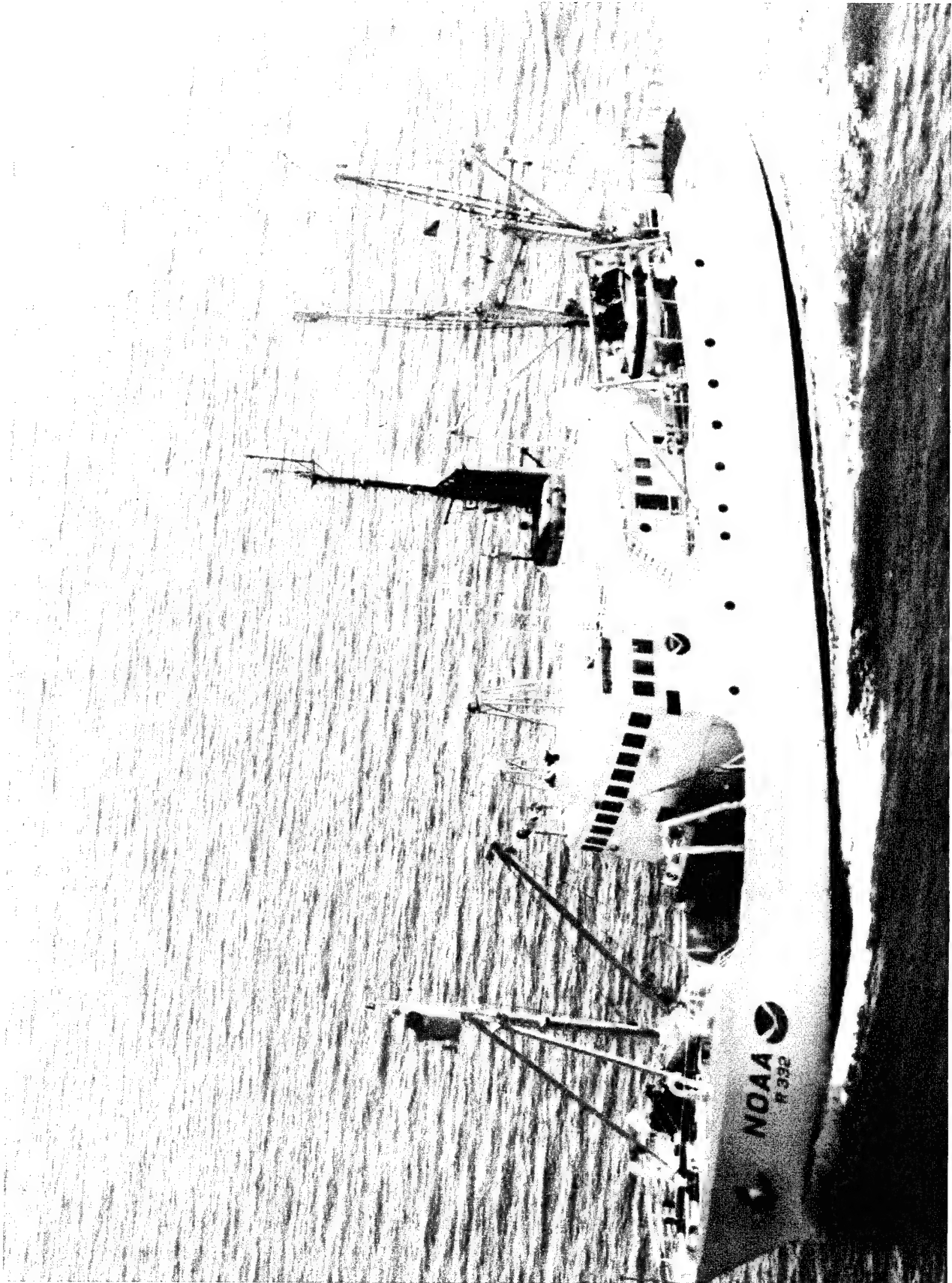
POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: OREGON II  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 170.0 FEET  
MAX BEAM: 34.0 FEET  
DISPLACEMENT: 952 TONS  
DRAUGHT: 14.0 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 7810 NAUTICAL MILES

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NOAA SHIP OREGON II

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POINT OF CONTACT INFORMATION (SCHEDULES)

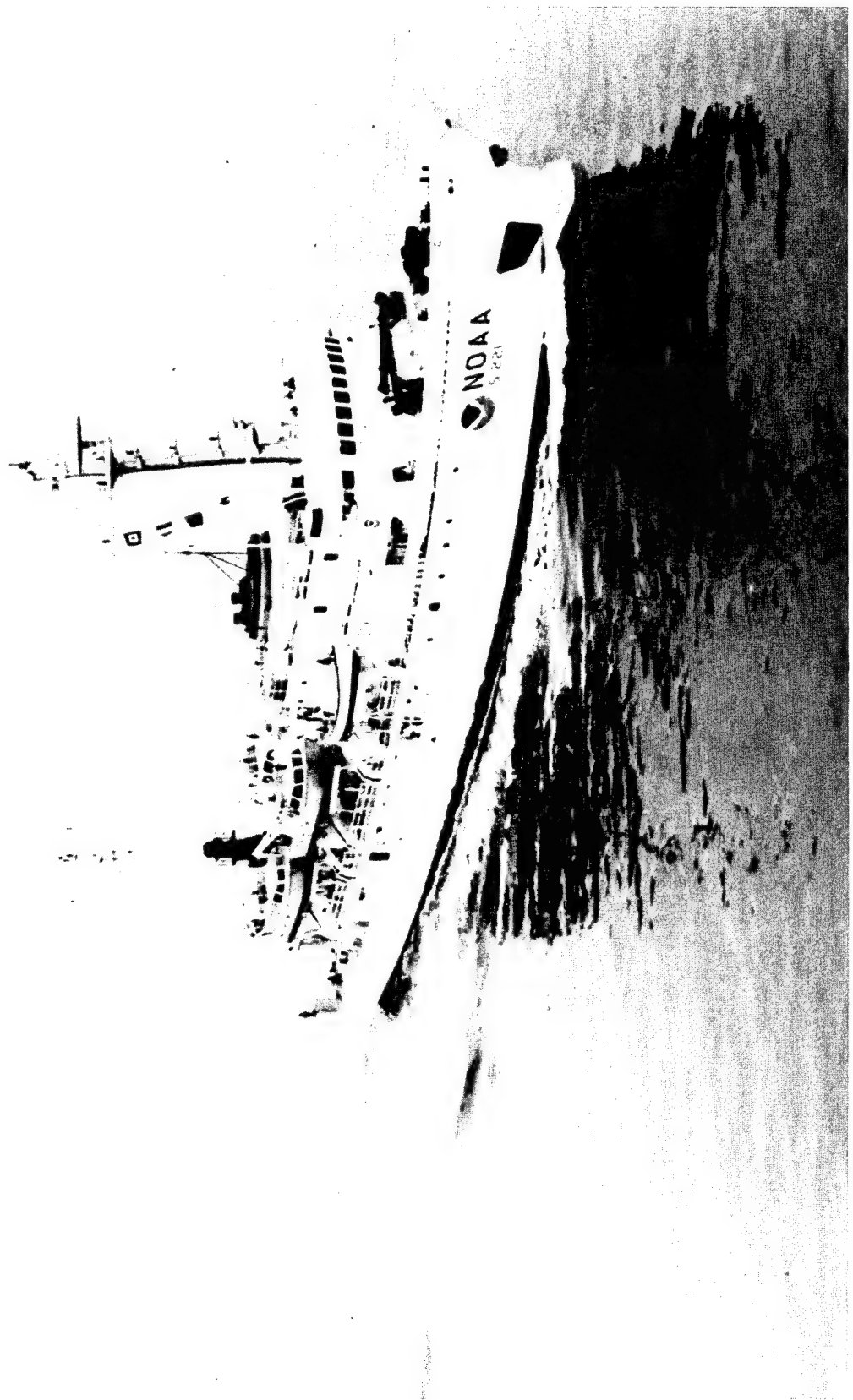
SHIP NAME: RAINIER  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548

-----

SHIP DIMENSIONS

LENGTH: 231.0 FEET  
MAX BEAM: 42.0 FEET  
DISPLACEMENT: 1800 TONS  
DRAUGHT: 14.3 FEET  
CRUISE SPEED: 11.0 KNOTS  
RANGE: 5898 NAUTICAL MILES

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NOAA SHIP RAINIER

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POINT OF CONTACT INFORMATION (SCHEDULES)

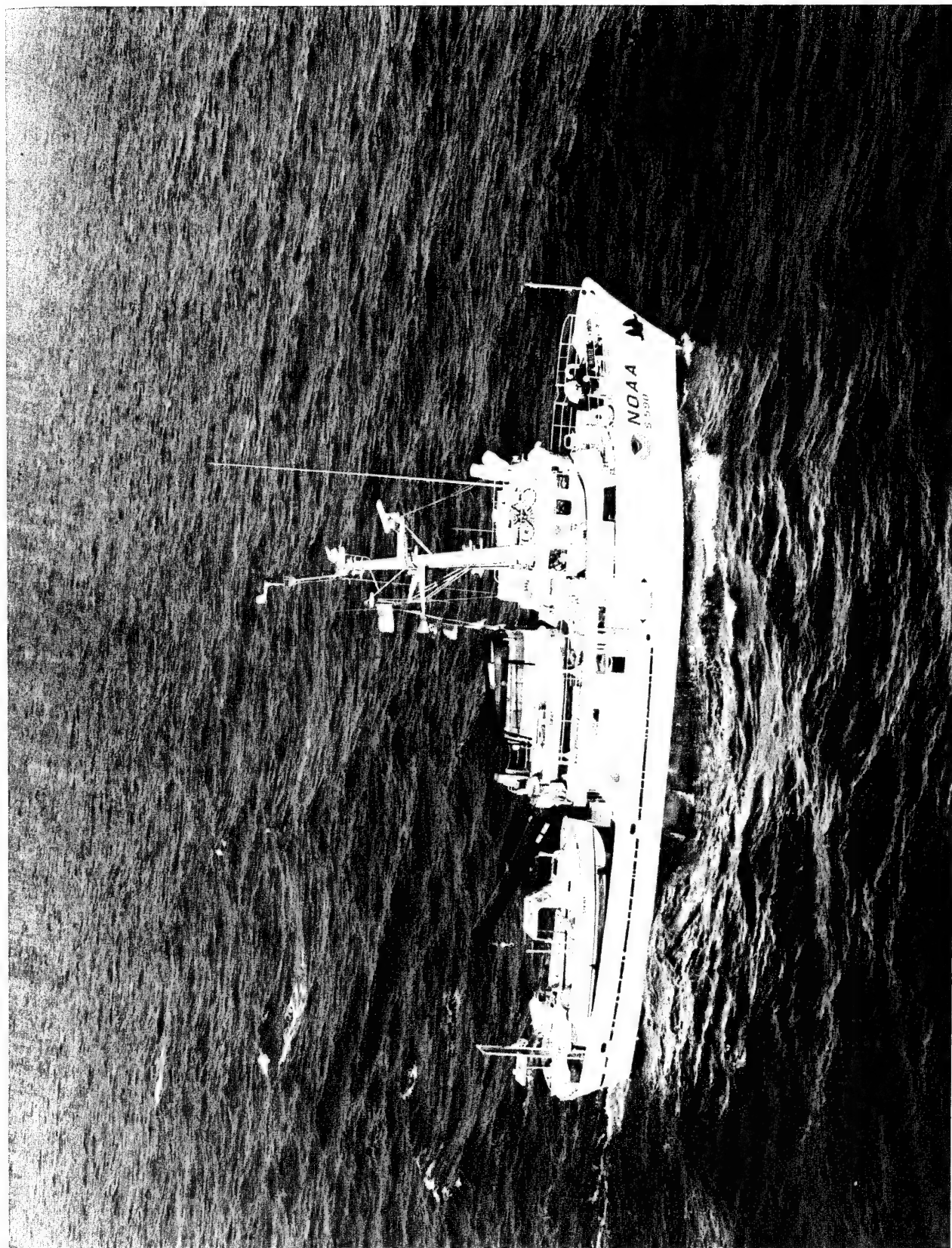
SHIP NAME: RUDE  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440  
-----

SHIP DIMENSIONS

LENGTH: 90.0 FEET  
MAX BEAM: 22.0 FEET  
DISPLACEMENT: 220 TONS  
DRAUGHT: 7.2 FEET  
CRUISE SPEED: 9.0 KNOTS  
RANGE: 770 NAUTICAL MILES

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NOAA SHIP RUDE



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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: SURVEYOR  
NAME: CAPT FRED JONES  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA PACIFIC MARINE CENTER  
ADDRESS: 1801 FAIRVIEW AVENUE E  
CITY-STATE: SEATTLE WA 98102  
COMMERCIAL AREA CODE: 206  
PHONE: 442-4548  
-----

SHIP DIMENSIONS

LENGTH: 292.2 FEET  
MAX BEAM: 46.0 FEET  
DISPLACEMENT: 3440 TONS  
DRAUGHT: 19.5 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 8033 NAUTICAL MILES

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NOAA SHIP SURVEYOR

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: WHITING  
NAME: CAPT ROBERT HUNT  
OFFICE: CHIEF OPERATIONS DIVISION  
ORGANIZATION: NOAA ATLANTIC MARINE CENTER  
ADDRESS: 439 WEST YORK STREET  
CITY-STATE: NORFOLK VA 23510  
COMMERCIAL AREA CODE: 804  
PHONE: 441-6440

-----

SHIP DIMENSIONS

LENGTH: 163.0 FEET  
MAX BEAM: 33.0 FEET  
DISPLACEMENT: 907 TONS  
DRAUGHT: 11.2 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 5700 NAUTICAL MILES

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NOAA SHIP WHITING

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: USNS SAMUEL P. LEE  
NAME: MARK HOLMES  
OFFICE: PACIFIC BRANCH OFFICE OF MARINE GEOLOGY  
ORGANIZATION: U.S. GEOLOGICAL SURVEY  
ADDRESS: 345 MIDDLEFIELD RD, MAILSTOP 999  
CITY-STATE: MENLO PARK CA 94025  
COMMERCIAL AREA CODE: 415  
PHONE: 856-7141  
-----

SHIP DIMENSIONS

LENGTH: 208.3 FEET  
MAX BEAM: 39.0 FEET  
DISPLACEMENT: 1338 TONS  
DRAUGHT: 14.2 FEET  
CRUISE SPEED: 11.6 KNOTS  
RANGE: 12000 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: LAKE GUARDIAN  
NAME: MR. DAVID ROCKWELL  
OFFICE: EPA PROJECT OFFICER  
ORGANIZATION: GREAT LAKES NATIONAL PROGRAM OFFICE  
ADDRESS: 230 SOUTH DEARBORN  
CITY-STATE: CHICAGO IL 60604  
COMMERCIAL AREA CODE: 312  
PHONE: 353-1373  
-----

SHIP DIMENSIONS

LENGTH: 180.0 FEET  
MAX BEAM: 40.0 FEET  
DISPLACEMENT: 850 TONS  
DRAUGHT: 11.0 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 6000 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

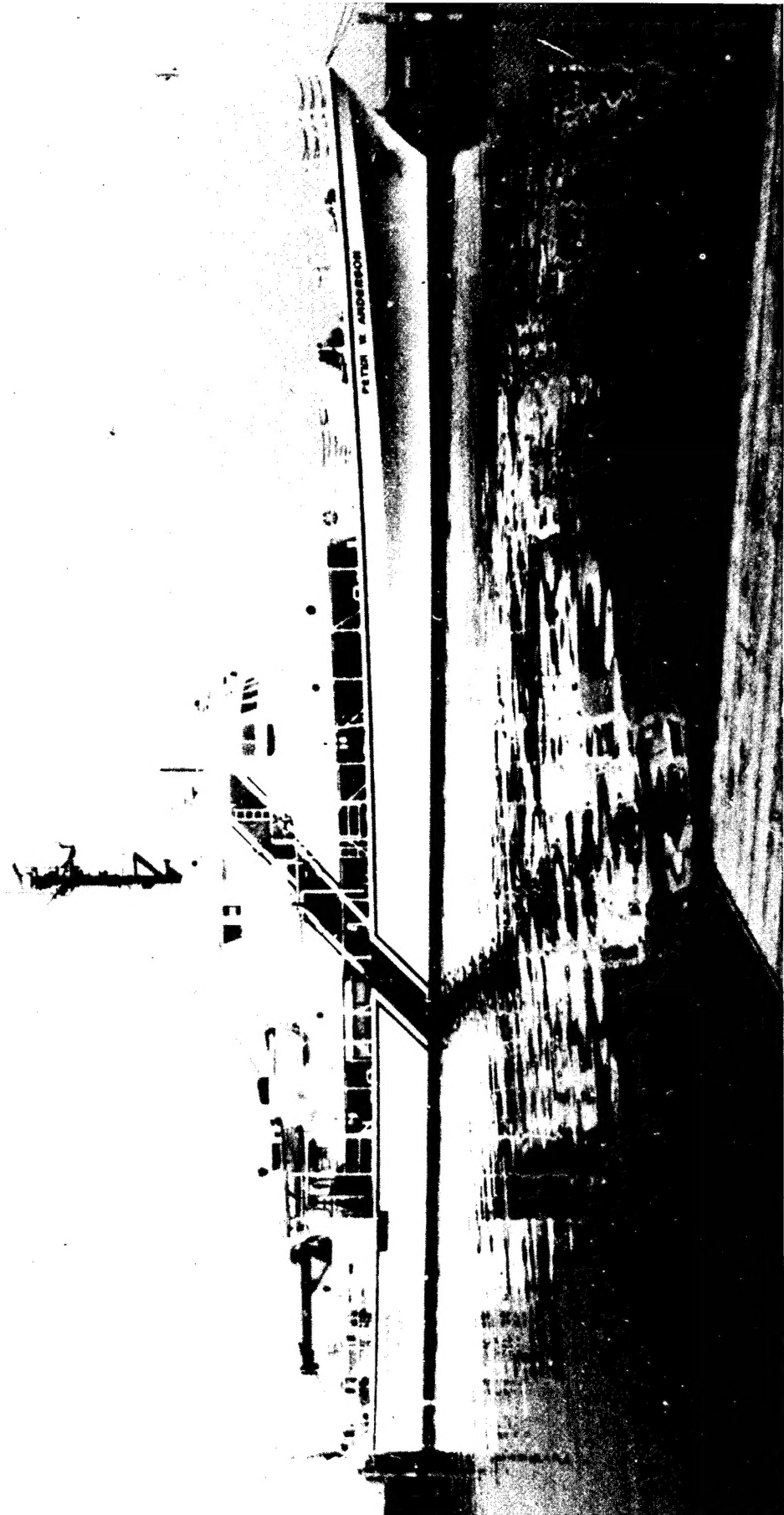
SHIP NAME: PETER W. ANDERSON  
NAME: EDWARD MCLEAN  
OFFICE: MARINE & ESTUARINE PROTECTION WH556M  
ORGANIZATION: ENVIRONMENTAL PROTECTION AGENCY  
ADDRESS: 401 M. STREET, SW  
CITY-STATE: WASHINGTON DC 20460  
COMMERCIAL AREA CODE: 202  
PHONE: 382-7143

-----

SHIP DIMENSIONS

LENGTH: 165.0 FEET  
MAX BEAM: 24.0 FEET  
DISPLACEMENT: 250 TONS  
DRAUGHT: 10.5 FEET  
CRUISE SPEED: 12.0 KNOTS  
RANGE: 2448 NAUTICAL MILES

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EPA PETER W. ANDERSON